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1.3 steno 0.4.4

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1.4 apk-tools 2.12.7-r3

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1.6 utf-8-validate 5.0.2

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1.7 lodash 4.17.21

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1.15 safe-buffer v5.2.0
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1.16 popsicle-cookie 1.0.0
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1.17 uri-js 4.2.2
1.17.1 Available under license :

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/*
 * QUnit - A JavaScript Unit Testing Framework
 *
 * http://docs.jquery.com/QUnit
 *
 * Copyright (c) 2009 John Resig, Jörn Zaefferer
 */
URI.js is an [RFC 3986](http://www.ietf.org/rfc/rfc3986.txt) compliant, scheme extendable URI parsing/validating/resolving library for all JavaScript environments (browsers, Node.js, etc). It is also compliant with the IRI ([RFC 3987](http://www.ietf.org/rfc/rfc3987.txt)), IDNA ([RFC 5890](http://www.ietf.org/rfc/rfc5890.txt)), IPv6 Address ([RFC 5952](http://www.ietf.org/rfc/rfc5952.txt)), IPv6 Zone Identifier ([RFC 6874](http://www.ietf.org/rfc/rfc6874.txt)) specifications.

URI.js has an extensive test suite, and works in all (Node.js, web) environments. It weighs in at 6.2kb (gzipped, 16kb deflated).

## API

### Parsing

```javascript
URI.parse("uri://user:pass@example.com:123/one/two.three?q1=a1&q2=a2#body");
//returns:
//{
//  scheme : "uri",
//  userinfo : "user:pass",
//  host : "example.com",
//  port : 123,
//  path : "/one/two.three",
//  query : "q1=a1&q2=a2",
//  fragment : "body"
//}
```

### Serializing
URI.serialize({ scheme : "http", host : "example.com", fragment : "footer" }) === "http://example.com/#footer"

### Resolving

URL.resolve("uri://a/b/c/d?q", "./.g") === "uri://a/g"

### Normalizing

URL.normalize("HTTP://ABC.com:80/%7Esmit/home.html") === "http://abc.com/~smith/home.html"

### Comparison

URL.equal("example://a/b/c/%7Bfoo%7D", "eXAMPLE://a.//.b/%63/%7bfoo%7d") === true

### IP Support

//IPv4 normalization
URL.normalize("//192.068.001.000") === "/192.68.1.0"

//IPv6 normalization
URL.normalize("//[2001:0:0DB8::0:0001]") === "/[2001:0:db8::1]"

//IPv6 zone identifier support
URL.parse("//[2001:db8::7%en1]");
//returns:
//{
//  host : "2001:db8::7%en1"
//}

### IRI Support

//convert IRI to URI
URI.serialize(URI.parse("http://exampl.org/ros")) === "http://xn--exampl-gva.org/ros%C3%A9"

//convert URI to IRI
URI.serialize(URI.parse("http://xn--exampl-gva.org/ros%C3%A9"), {iri:true}) === "http://exampl.org/ros"

### Options

All of the above functions can accept an additional options argument that is an object that can contain one or more of the following properties:

*`scheme` (string)

Indicates the scheme that the URI should be treated as, overriding the URI's normal scheme parsing behavior.

*`reference` (string)

If set to "suffix", it indicates that the URI is in the suffix format, and the validator will use the option’s `scheme`
property to determine the URI's scheme.

* ‘tolerant’ (boolean, false)

If set to `true`, the parser will relax URI resolving rules.

* ‘absolutePath’ (boolean, false)

If set to `true`, the serializer will not resolve a relative `path` component.

* ‘iri’ (boolean, false)

If set to `true`, the serializer will unescape non-ASCII characters as per [RFC 3987](http://www.ietf.org/rfc/rfc3987.txt).

* ‘unicodeSupport’ (boolean, false)

If set to `true`, the parser will unescape non-ASCII characters in the parsed output as per [RFC 3987](http://www.ietf.org/rfc/rfc3987.txt).

* ‘domainHost’ (boolean, false)

If set to `true`, the library will treat the `host` component as a domain name, and convert IDNs (International Domain Names) as per [RFC 5891](http://www.ietf.org/rfc/rfc5891.txt).

## Scheme Extendable

URI.js supports inserting custom [scheme](http://en.wikipedia.org/wiki/URI_scheme) dependent processing rules. Currently, URI.js has built in support for the following schemes:

* `http` [[RFC 2616](http://www.ietf.org/rfc/rfc2616.txt)]
* `https` [[RFC 2818](http://www.ietf.org/rfc/rfc2818.txt)]
* `mailto` [[RFC 6068](http://www.ietf.org/rfc/rfc6068.txt)]
* `urn` [[RFC 2141](http://www.ietf.org/rfc/rfc2141.txt)]
* `urn:uuid` [[RFC 4122](http://www.ietf.org/rfc/rfc4122.txt)]

### HTTP Support

URI.equal("HTTP://ABC.COM:80", "http://abc.com/") === true

### Mailto Support

URI.parse("mailto:alpha@example.com,bravo@example.com?subject=SUBSCRIBE&body=Sign%20me%20up!");
//returns:
//{"scheme": "mailto",
// "to": ["alpha@example.com", "bravo@example.com"],
// "subject": "SUBSCRIBE",}
// body: "Sign me up!"
//]

URI.serialize({
  scheme: "mailto",
  to: ["alpha@example.com"],
  subject: "REMOVE",
  body: "Please remove me",
  headers: {
    cc: "charlie@example.com"
  }
}) ===
"mailto:alpha@example.com?cc=charlie@example.com&subject=REMOVE&body=Please%20remove%20me"

### URN Support

URI.parse("urn:example:foo");
// returns:
//{
//  scheme: "urn",
//  nid: "example",
//  nss: "foo",
//}

#### URN UUID Support

URI.parse("urn:uuid:f81d4fae-7dec-11d0-a765-00a0c91e6bf6");
// returns:
//{
//  scheme: "urn",
//  nid: "example",
//  uuid: "f81d4fae-7dec-11d0-a765-00a0c91e6bf6",
//}

## Usage

To load in a browser, use the following tag:

<script type="text/javascript" src="uri-js/dist/es5/uri.all.min.js"></script>

To load in a CommonJS (Node.js) environment, first install with npm by running on the command line:

npm install uri-js

Then, in your code, load it using:

const URI = require("uri-js");
If you are writing your code in ES6+ (ESNEXT) or TypeScript, you would load it using:

```javascript
import * as URI from "uri-js";
```

Or you can load just what you need using named exports:

```javascript
import { parse, serialize, resolve, resolveComponents, normalize, equal, removeDotSegments, pctEncChar, pctDecChars, escapeComponent, unescapeComponent } from "uri-js";
```

## Breaking changes

### Breaking changes from 3.x

URN parsing has been completely changed to better align with the specification. Scheme is now always `urn`, but has two new properties: `nid` which contains the Namespace Identifier, and `nss` which contains the Namespace Specific String. The `nss` property will be removed by higher order scheme handlers, such as the UUID URN scheme handler.

The UUID of a URN can now be found in the `uuid` property.

### Breaking changes from 2.x

URI validation has been removed as it was slow, exposed a vulnerability, and was generally not useful.

### Breaking changes from 1.x

The `errors` array on parsed components is now an `error` string.

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* /opt/cola/permits/1110634955_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-4f6f600/README.md

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* /opt/cola/permits/110634955_1606918997.92/0/garycourt-uri-ja-s-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-ja-s-4f6f600/dist/es5/uri.all.js

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function that gets called for every array item:

```javascript
function map(array, fn) {
  const result = [];
  let length = array.length;
  while (length--)
    result[length] = fn(array[length]);
  return result;
}
```

```javascript
function mapDomain(string, fn) {
  const parts = string.split('@');
  let result = '';
  if (parts.length > 1) {
    // In email addresses, only the domain name should be punycoded. Leave
    // the local part (i.e. everything up to '@') intact.
    result = parts[0] + '@';
    string = parts[1];
  }
  // Avoid `split(regex)` for IE8 compatibility. See #17.
  string = string.replace(regexSeparators, '\x2E');
  const labels = string.split('.');
  const encoded = map(labels, fn).join('.');
  return result + encoded;
}
```

```javascript
function ucs2decode(string) {
  const output = [];
  let counter = 0;
  const length = string.length;
  while (counter < length) {
    const value = string.charCodeAt(counter++);
    if (value >= 0xD800 && value <= 0xDBFF && counter < length) {
      // It's a high surrogate, and there is a next character.
      const extra = string.charCodeAt(counter++);
      if ((extra & 0xFC00) == 0xDC00) { // Low surrogate.
        output.push(((value & 0x3FF) << 10) + (extra & 0x3FF) + 0x10000);
      } else {
        // It's an unmatched surrogate; only append this code unit, in case the
        // next code unit is the high surrogate of a surrogate pair.
        output.push(value);
        counter--;
      }
    } else {
      output.push(value);
    }
  }
  return output;
}
```

```javascript
const ucs2encode = array => String.fromCodePoint(...array);
```

```javascript
const basicToDigit = function(codePoint) {
  if (codePoint - 0x30 < 0x0A) {
    return codePoint - 0x16;
  }
  if (codePoint - 0x41 < 0x1A) {
    return codePoint - 0x41;
  }
  if (codePoint - 0x61 < 0x1A) {
    return codePoint - 0x61;
  }
  return base;
};
```

```javascript
const digitToBasic = function(digit, flag) {
  // 0..25 map to ASCII a..z or A..Z
  // 26..35 map to ASCII 0..9
  return digit + 22 + 75 * (digit < 26) - ((flag != 0) << 5);
};
```

```javascript
const adapt = function(delta, numPoints, firstTime) {
  let k = 0;
  delta = firstTime ? floor(delta / damp) : delta >> 1;
  delta += floor(delta / numPoints);
  for (/* no initialization */; delta > baseMinusTMin * tMax >> 1; k += base) {
    delta = floor(delta / baseMinusTMin);
  }
  return floor(k + (baseMinusTMin + 1) * delta / (delta + skew));
};
```

```javascript
const decode = function(input) {
  // Don't use UCS-2.
  const output = [];
  const inputLength = input.length;
  let i = 0;
  let n = initialN;
  let bias = initialBias;
  let tMax = tMax >> 1;
  for (let delta; delta > 1; delta = floor(delta / numPoints)) {
    // No initialization.
    delta > baseMinusTMin * tMax >> 1; k += base;
    output[i] = (((bias + (baseMinusTMin + 1) * delta / (delta + skew)) & 0xFFFF) - n) * bias + n;
  }
  return output;
}
```

```javascript
const ucs2decode = function(input) {
  let output = [];
  let length = input.length;
  let i = 0;
  let n = initialN;
  let delta = firstTime ? floor(delta / damp) : delta >> 1;
  let tMax = tMax >> 1;
  for (let k = 0; k < length; k++) {
    output[i] = (((bias + (baseMinusTMin + 1) * delta / (delta + skew)) & 0xFFFF) - n) * bias + n;
    delta = floor(delta / numPoints);
  }
  return output;
}
```

```javascript
const ucs2encode = function(array) {
  return String.fromCharCode(...array);
}
```
```javascript
let basic = input.lastIndexOf(delimiter);
if (basic < 0) {
    basic = 0;
}
for (let j = 0; j < basic; ++j) {
    if (input.charCodeAt(j) >= 0x80) {
        error('not-basic');
    }
    output.push(input.charCodeAt(j));
}

// Main decoding loop:
for (let index = basic > 0 ? basic + 1 : 0; index < inputLength; /* no final expression */) {
    // `index` is the index of the next character to be consumed.
    // Decode a generalized variable-length integer into `delta`, `index` which gets added to `i`.
    // The overflow checking is easier if we increase `i` as we go, then subtract off its starting value at the end to obtain `delta`. `oldi` is i; `nld` for (let w = 1, k = base; /* no condition */; k += base)
    (index >= inputLength) {
        error('invalid-input');
    }
    const digit = basicToDigit(input.charCodeAt(index++));
    if (digit >= base || digit > floor((maxInt - i) / w)) {
        error('overflow');
    }
    i += digit * w;
    const t = k <= bias ? tMin : (k >= bias + tMax ? tMax : k - bias);
    const baseMinusT = base - t; // `baseMinusT` for (let w = floor(maxInt / baseMinusT)) {
        error('overflow');
    }
    const q = floor(qMinusT / baseMinusT);
    output.push(stringFromCharCode(digitToBasic(t + qMinusT % baseMinusT, 0)));
    bias = adapt(delta, handledCPCount * output.length + 1);
    delta = 0;
    ++handledCPCount;
}
return String.fromCharCode(...output);
};

/**
 * Converts a Punycode string of ASCII-only symbols to a string of Unicode symbols.
 * @memberOf punycode
 * @param {String} input The string of Unicode symbols.
 * @returns {String} The resulting Punycode string of ASCII-only symbols.
 */
constrolToUnicode = function(input) {
    const output = [];
    input = ucs2decode(input);
    let inputLength = input.length;
    let n = initialN;
    let delta = initialBias;
    for (const currentValue of input) {
        if (currentValue < 0x80) {
            output.push(stringFromCharCode(currentValue));
        }
    }
    let basicLength = output.length;
    let handledCPCount = basicLength;
    let m = maxInt;
    for (const currentValue of input) {
        if (currentValue >= n && currentValue < m) {
            m = currentValue;
        }
    }
    n = m;
    delta = 0;
    handledCPCount += 1;
    for (let index = 0; index < inputLength; /* no final expression */) {
        // All non-basic code points < n have been handled already. Find the next > delta.
        // `delta` enough to advance the decoder's <n,i> state to <m,0>, but guard against overflow.
        handledCPCountPlusOne = handledCPCount + 1;
        // `handledCPCountPlusOne` is the number of code points that have been handled.
        // `basicLength` is the number of basic code points.
        // Finish the basic string with a delimiter unless it's empty.
        for (let index = 0; index < inputLength; /* no final expression */) {
            // `index` is the index of the next character to be consumed.
            // Decode a generalized variable-length integer into `delta`, which gets added to `i`.
            // The overflow checking is easier if we increase `i` as we go, then subtract off its starting value at the end to obtain `delta`.
            // `oldi` is i; `nld` for (let w = 1, k = base; /* no condition */; k += base)
            (index >= inputLength) {
                error('invalid-input');
            }
            const digit = basicToDigit(input.charCodeAt(index++));
            if (digit >= base || digit > floor((maxInt - i) / w)) {
                error('overflow');
            }
            i += digit * w;
            const t = k <= bias ? tMin : (k >= bias + tMax ? tMax : k - bias);
            const baseMinusT = base - t;
            const q = floor(qMinusT / baseMinusT);
            output.push(stringFromCharCode(digitToBasic(t + qMinusT % baseMinusT, 0)));
            bias = adapt(delta, handledCPCount * output.length + 1);
            delta = 0;
            ++handledCPCount;
        }
        return output.join('');
    }
};

/**
 * Converts a string of Unicode symbols (e.g. a domain name label) to a Punycode string of ASCII-only symbols.
 * @memberOf punycode
 * @param {String} input The string of Unicode symbols.
 * @returns {String} The resulting Punycode string of ASCII-only symbols.
 */
const toUnicode = function(input) {
    return mapDomain(input, function(string) {
        return regexPunycode.test(string)
            ? decode(string.slice(4).toLowerCase())
            : string;
    });
};

/**
 * Converts a Punycode string representing a domain name or an email address to Unicode. Only the Punycoded parts of the input will be converted, i.e. it doesn't matter if you call it on a string that has already been converted to Unicode.
 * @memberOf punycode
 * @param {String} input The Punycode domain name or email address to convert to Unicode.
 * @returns {String} The Unicode representation of the given Punycode string.
 */
const toUnicode = function(input) {
    return mapDomain(input, function(string) {
        return regexPunycode.test(string)
            ? decode(string.slice(4).toLowerCase())
            : string;
    });
};
```
Converts a Unicode string representing a domain name or an email address to Punycode. Only the non-ASCII parts of the domain name will be converted, i.e. it doesn't matter if you call it with a domain that's already in ASCII.

* @memberOf punycode
* @param {String} input The domain name or email address to convert, as a Unicode string.
* @returns {String} The Punycode representation of the given domain name or email address.
*/
const toASCII = function(input) {
  return mapDomain(input, function(string) {
    return regexNonASCII.test(string)
      ? 'xn--' + encode(string)
      : string;
  });
};

/*-----------------------------------*/

/** Define the public API */
const punycode = {
  /**
   * A string representing the current Punycode.js version number.
   * @memberOf punycode
   * @type String
   */
  'version': '2.1.0',
  /**
   * An object of methods to convert from JavaScript's internal character
   * representation (UCS-2) to Unicode code points, and back.
   * @see <https://mathiasbynens.be/notes/javascript-encoding>
   * @memberOf punycode
   * @type Object
   */
  'ucs2': {
    'decode': ucs2decode,
    'encode': ucs2encode
  },
  'decode': decode,
  'encode': encode,
  'toASCII': toASCII,
  'toUnicode': toUnicode
};

export default punycode;

/**
 * URI.js
 *
 * @fileoverview An RFC 3986 compliant, scheme extendable URI parsing/validating/resolving library for JavaScript.
 * @author <a href="mailto:gary.court@gmail.com">Gary Court</a>
 * @see http://github.com/garycourt/uri-js
 */

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 */

import URI_PROTOCOL from './regexps-uri';
import IRI_PROTOCOL from './regexps-iri';
import punycode from 'punycode';
import { toUpperCase, typeOf, assign } from './util';

export interface URIComponents {
  scheme?: string;
  userinfo?: string;
  host?: string;
  port?: number | string;
  path?: string;
  query?: string;
  fragment?: string;
  reference?: string;
  error?: string;
}

export interface URIOptions {
  scheme?: string;
  reference?: string;
  tolerant?: boolean;
  absolutePath?: boolean;
  iri?: boolean;
  unicodeSupport?: boolean;
  domainHost?: boolean;
}

export interface URISchemeHandler<Components extends URIComponents = URIComponents, Options extends URIOptions = URIOptions, ParentComponents extends URIComponents> {
  scheme: string;
  parse(components: ParentComponents, options: Options): Components;
  serialize(components: Components, options: Options): ParentComponents;
  unicodeSupport?: boolean;
  domainHost?: boolean;
}

export interface URIRegExps {
  NOT_SCHEME : RegExp,
  NOT_USERINFO : RegExp,
  NOT_HOST : RegExp,
  NOT_PATH : RegExp,
  NOT_PATH_NOSCHEMENAME : RegExp,
  NOT_QUERY : RegExp,
  NOT_FRAGMENT : RegExp,
  ESCAPE : RegExp,
  UNRESERVED : RegExp,
  OTHER_CHARS : RegExp,
  PCT_ENCODED : RegExp,
  IPV4ADDRESS : RegExp,
  IPV6ADDRESS : RegExp,
}

export const SCHEMES:{[scheme:string]:URISchemeHandler} = {};
e = '%0' + c.toString(16).toUpperCase();
	else if (c < 128) e = '%0' + c.toString(16).toUpperCase();
	else if (c < 2048) e = '%0' + ((c >> 6) | 192).toString(16).toUpperCase() + '%0' + ((c & 63) | 128).toString(16).toUpperCase();
	else e = '%0' + ((c >> 12) | 224).toString(16).toUpperCase() + '%0' + (((c >> 6) & 63) | 128).toString(16).toUpperCase() + '%0' + ((c & 63) | 128).toString(16).toUpperCase();

	return e;
}

export function pctDecChars(str:string):string {
	let newStr = "";
	let i = 0;
const il = str.length;

	while (i < il) {
		const c = parseInt(str.substr(i + 1, 2), 16);

		if (c < 128) {
			newStr += String.fromCharCode(c);
			i += 3;
		}
		else if (c >= 194 && c < 224) {
			if ((il - i) >= 6) {
				const c2 = parseInt(str.substr(i + 4, 2), 16);
				newStr += String.fromCharCode(((c & 31) << 6) | (c2 & 63));
			}
			else {
				newStr += str.substr(i, 6);
			}
			i += 6;
		}
		else if (c >= 224) {
			if ((il - i) >= 9) {
				const c2 = parseInt(str.substr(i + 4, 2), 16);
				const c3 = parseInt(str.substr(i + 7, 2), 16);
				newStr += String.fromCharCode(((c & 15) << 12) | ((c2 & 63) << 6) | (c3 & 63));
			} else {
				newStr += str.substr(i, 9);
			}
			i += 9;
		}
		else {
			newStr += str.substr(i, 3);
			i += 3;
		}
	}

	return newStr;
}

function _normalizeComponentEncoding(components:URIComponents, protocol:URIRegExps) {
	function decodeUnreserved(str:string):string {
		const decStr = pctDecChars(str);
		return (!decStr.match(protocol.UNRESERVED) ? str : decStr);
	}

	if (components.scheme) components.scheme = String(components.scheme).replace(protocol.PCT_ENCODED, decodeUnreserved).toLowerCase().replace(protocol.NOT_SCHEME, "");
	if (components.userinfo !== undefined) components.userinfo = String(components.userinfo).replace(protocol.PCT_ENCODED, decodeUnreserved).replace(protocol.NOT_USERINFO, pctEncChar).replace(protocol.PCT_ENCODED, toUpperCase);
	if (components.host !== undefined) components.host = String(components.host).replace(protocol.PCT_ENCODED, decodeUnreserved).replace(protocol.NOT_HOST, pctEncChar).replace(protocol.PCT_ENCODED, toUpperCase);
	if (components.path !== undefined) components.path = String(components.path).replace(protocol.PCT_ENCODED, decodeUnreserved).replace((components.scheme ? protocol.NOT_PATH : protocol.NOT_PATH_NOSCHEME), pctEncChar).replace(protocol.PCT_ENCODED, toUpperCase);
	if (components.query !== undefined) components.query = String(components.query).replace(protocol.PCT_ENCODED, decodeUnreserved).replace(protocol.NOT_QUERY, pctEncChar).replace(protocol.PCT_ENCODED, toUpperCase);
	if (components.fragment !== undefined) components.fragment = String(components.fragment).replace(protocol.PCT_ENCODED, decodeUnreserved).replace(protocol.PCT_ENCODED, toUpperCase);

decodeUnreserved().replace(protocol.NOT_FRAGMENT, pctEncChar).replace(protocol.PCT_ENCODED, toUpperCase);

	return components;
};

function _stripLeadingZeros(str:string):string {
	return str.replace(/^0*(.*)/, "$1") || "0";
}

function _normalizeIPv4(host:string, protocol:URIRegExps):string {
	const matches = host.match(protocol.IPV4ADDRESS) || [];
	const [, address] = matches;

	if (address) {
		return address.split(".").map(_stripLeadingZeros).join(".");
	} else {
		return host;
	}
}

function _normalizeIPv6(host:string, protocol:URIRegExps):string {
	const matches = host.match(protocol.IPV6ADDRESS) || [];
	const [, address, zone] = matches;

	if (address) {
		const [last, first] = address.toLowerCase().split('::').reverse();
		let firstFields = first ?
			first.split(':').map(_stripLeadingZeros) : [];
		let lastFields =
			last.split(':').map(_stripLeadingZeros);
		let lastField = LastFieldIPv4Address = protocol.IPV4ADDRESS.test(lastFields[lastFields.length - 1]);
		let fieldCount = isLastFieldIPv4Address ? 8 : (lastFields.length - lastFields.length - fieldCount);"; 

		return address.split(":").join(":");
	}
	else {
		return host.replace(protocol.IPV4ADDRESS, protocol.IPV6ADDRESS);
	}
}
longestZeroFields.length > 1) {
const newFirst = fields.slice(0, longestZeroFields.index);
const newLast = fields.slice(longestZeroFields.index + longestZeroFields.length);
const newHost = fields.join(":");
return newHost;
} else {
return host;
}

// ...
IPv6
uriTokens.push(_normalizeIPv6(String(components.host), protocol), protocol).replace(protocol.IPV6ADDRESS, (_, $1, $2) => "\[" + $1 + ($2 ? "%25" + $2 : "") + "\]");

	if (typeof components.port === "number") {
		uriTokens.push(":");
		uriTokens.push(components.port.toString(10));
	}

	return uriTokens.length ? uriTokens.join("") : undefined;
};

const RDS1 = /^\.\.?\//;
const RDS2 = /^\/\.(\/|$)/;
const RDS3 = /^\/\.\.(\/|$)/;
const RDS4 = /^\.\.?$/;
const RDS5 = /^\/?(?:.|\n)*?(?=\/|$)/;

export function removeDotSegments(input:string):string {
	const output:Array<string> = [];

	while (input.length) {
		if (input.match(RDS1)) {
			input = input.replace(RDS1, "");
		} else if (input.match(RDS2)) {
			input = input.replace(RDS2, "/");
		} else if (input.match(RDS3)) {
			input = input.replace(RDS3, "/\"\"\"\"\"\"\"\"\"\"\"");
		} else if (input === "." || input === "..") {
			input = "";
		} else {
			const im = input.match(RDS5);
			if (im) {
				const s = im[0];
				input = input.slice(s.length);
				output.push(s);
			} else {
				throw new Error("Unexpected dot segment condition");
			}
		}

	return output.join("");
};

export function serialize(components:URIComponents, options:URIOptions = {}) :string {
	const protocol = (options.iri ? IRI_PROTOCOL : URI_PROTOCOL);
	const uriTokens:Array<string> = [];

	//find scheme handler
	const schemeHandler = SCHEMES[(options.scheme || components.scheme || "").toLowerCase()];

	//perform scheme specific serialization
	if (schemeHandler && schemeHandler.serialize) schemeHandler.serialize(components, options);

	if (components.host) {
		//if host component is an IPv6 address
		if (protocol.IPV6ADDRESS.test(components.host)) {
			//TODO: normalize IPv6 address as per RFC 5952
		}

		//if host component is a domain name
		else if (options.domainHost || (schemeHandler && schemeHandler.domainHost)) {
			//convert IDN via punycode
			try {
				components.host = (!options.iri ? punycode.toASCII(components.host.replace(protocol.PCT_ENCODED, pctDecChars).toLowerCase()) : punycode.toUnicode(components.host));
			} catch (e) {
				components.error = components.error || "Host's domain name can not be converted to " + (!options.iri ? "ASCII" : "Unicode") + " via punycode: " + e;
			}
		}
	}

	//normalize encoding
	_normalizeComponentEncoding(components, protocol);

	if (options.reference !== "suffix" && components.scheme) {
		uriTokens.push(components.scheme);
		uriTokens.push(":");
	}

	const authority = _recomposeAuthority(components, options);
	if (authority !== undefined) {
		uriTokens.push("//");
		uriTokens.push(authority);

		if (components.path && components.path.charAt(0) !== "/") {
			uriTokens.push("/");
		}
	}

	if (components.path !== undefined) {
		let s = components.path;

		if (!options.absolutePath && (!schemeHandler || !schemeHandler.absolutePath)) {
			s = removeDotSegments(s);
			//don't allow the path to start with "\"\"\"\"\"\"\"\"\"\"\"":  //merge tokens into a string
		}

		if (authority === undefined) {
			uriTokens.push("%2F" + s.replace(/\//, "/%2F"));
		} else {
			uriTokens.push("%2F" + s.replace(/\//, "/%2F"));
		}

		return uriTokens.join("");
};

export function resolveComponents(base:URIComponents, relative:URIComponents, options:URIOptions = {}, skipNormalization?:boolean):URIComponents {
	const target:URIComponents = {};

	if (!skipNormalization) {
		base = parse(serialize(base, options), options); //normalize base components
		relative = parse(serialize(relative, options), options); //normalize relative components
	}

	options = options || {};

	if (!options.tolerant && relative.scheme) {
		target.scheme = relative.scheme;
	}

	if (relative.userinfo !== undefined || relative.host !== undefined || relative.port !== undefined) {
		target.userinfo = relative.userinfo;
		target.host = relative.host;
		target.port = relative.port;
		//merge tokens into a string
	}

	return

relative.query; } else { target.query = base.query; } else if (relative.path.charAt(0) === "/") { target.path = removeDotSegments(relative.path); } else if (base.path) { target.path = relative.path; } else { target.path = base.path.slice(0, base.path.lastIndexOf("" + 1) + relative.path.length); } else { target.path = base.host + base.port + base.scheme + base.fragment; } }

return target;};

export function resolve(baseURI:string, relativeURI:string, options?:URIOptions):string {
  const schemelessOptions = assign({ scheme : 'null' }, options);
  return serialize(resolveComponents(parse(baseURI, schemelessOptions), parse(relativeURI, schemelessOptions), schemelessOptions, true), schemelessOptions);
};

export function normalize(uri:string, options?:URIOptions):string;
export function normalize(uri:URIComponents, options?:URIOptions):URIComponents;
export function normalize(uri:any, options?:URIOptions):any {
  if (typeof uri === "string") {
    uri = serialize(parse(uri, options), options);
  } else if (typeOf(uri) === "object") {
    uri = serialize(<URIComponents>uri, options);
  }

  return uri;
};

export function equal(uriA:string, uriB:string, options?: URIOptions):boolean;
export function equal(uriA:URIComponents, uriB:URIComponents, options?:URIOptions):boolean;
export function equal(uriA:any, uriB:any, options?:URIOptions):boolean {
  if (typeof uriA === "string") {
    uriA = serialize(parse(uriA, options), options);
  } else if (typeOf(uriA) === "object") {
    uriA = serialize(<URIComponents>uriA, options);
  }

  if (typeof uriB === "string") {
    uriB = serialize(parse(uriB, options), options);
  } else if (typeOf(uriB) === "object") {
    uriB = serialize(<URIComponents>uriB, options);
  }

  return uriA === uriB;
};

export function escapeComponent(str:string, options?:URIOptions):string {
  return str && str.toString().replace((!options || !options.iri ? URI_PROTOCOL.ESCAPE : IRI_PROTOCOL.ESCAPE), pctEncChar);
};

export function unescapeComponent(str:string, options?:URIOptions):string {
  return str && str.toString().replace((!options || !options.iri ? URI_PROTOCOL.PCT_ENCODED : IRI_PROTOCOL.PCT_ENCODED), pctDecChars);
};
merge(QTEXT$$, "[\\"]");
const DOT_ATOM_TEXT$ = subexp(ATEXT$$ + "+" + subexp("\\." + ATEXT$$ + "\+") + "*");
const QUOTED_PAIR$ = subexp("\\"] + VCHAR$); const QCONTENTS$ = subexp(QTEXT$$ + "\"] + QUOTED_PAIR$); const QUOTED_STRING$ = subexp("\\"] + QCONTENT$) + "*");

//RFC 6068
const DTEXT_NO_OBS$$ = "[\\x21-\\x5A\\x5E-\\x7E]"; //%d33-90 / %d94-126
const SOME_DELIM$$ = "[\\\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\"]\”
punycode.toASCII(unescapeComponent(domain, options).toLowerCase());

catch (e) {components.error = components.error || "Email address's domain name can not be converted to " + (options.iri ? "ASCII" : "unicodenum") + " via punycode: " + e;}

domain = domain.replace(PCT_ENCODED, decodeUnreserved);

to = localPart + "@" + domain;

components.path = to.join(",");

custom headers = mailComponents.headers || {};

let exports = mailComponents.headers || {};

 emailComponents.headers = exports;

components.query = fields.join("&");

return components;
}

export default handler;
schemeHandler.serialize(urnComponents, options) as URNComponents

// RFC 4212
const handler: URISchemeHandler<URNComponents> = {
  scheme: "urn:uuid",
  parse: function (urnComponents: URNComponents, options: URIOptions): UUIDComponents {
    const uuidComponents = urnComponents as UUIDComponents;
    uuidComponents.uuid = uuidComponents.nss;
    uuidComponents.nss = undefined;

    if (!options.tolerant && (!uuidComponents.uuid || !uuidComponents.uuid.match(UUID))) {
      uuidComponents.error = uuidComponents.error || "UUID is not valid.";
    }

    return uuidComponents;
  },

  serialize: function (uuidComponents: UUIDComponents, options: URIOptions): URNComponents {
    const urnComponents = uuidComponents as URNComponents;
    // normalize UUID
    urnComponents.nss = (uuidComponents.uuid || "").toLowerCase();
    return urnComponents;
  },
};

export default handler;

// RFC 4212
const handler: URISchemeHandler<URNComponents> = {
  scheme: "urn:uuid",
  parse: function (urnComponents: URNComponents, options: URIOptions): UUIDComponents {
    const uuidComponents = urnComponents as UUIDComponents;
    uuidComponents.uuid = uuidComponents.nss;
    uuidComponents.nss = undefined;

    if (!options.tolerant && (!uuidComponents.uuid || !uuidComponents.uuid.match(UUID))) {
      uuidComponents.error = uuidComponents.error || "UUID is not valid.";
    }

    return uuidComponents;
  },

  serialize: function (uuidComponents: UUIDComponents, options: URIOptions): URNComponents {
    const urnComponents = uuidComponents as URNComponents;
    // normalize UUID
    urnComponents.nss = (uuidComponents.uuid || "").toLowerCase();
    return urnComponents;
  },
};

export default handler;

// RFC 4212
const handler: URISchemeHandler<URNComponents> = {
  scheme: "urn:uuid",
  parse: function (urnComponents: URNComponents, options: URIOptions): UUIDComponents {
    const uuidComponents = urnComponents as UUIDComponents;
    uuidComponents.uuid = uuidComponents.nss;
    uuidComponents.nss = undefined;

    if (!options.tolerant && (!uuidComponents.uuid || !uuidComponents.uuid.match(UUID))) {
      uuidComponents.error = uuidComponents.error || "UUID is not valid.";
    }

    return uuidComponents;
  },

  serialize: function (uuidComponents: UUIDComponents, options: URIOptions): URNComponents {
    const urnComponents = uuidComponents as URNComponents;
    // normalize UUID
    urnComponents.nss = (uuidComponents.uuid || "").toLowerCase();
    return urnComponents;
  },
};

export default handler;

// RFC 4212
const handler: URISchemeHandler<URNComponents> = {
  scheme: "urn:uuid",
  parse: function (urnComponents: URNComponents, options: URIOptions): UUIDComponents {
    const uuidComponents = urnComponents as UUIDComponents;
    uuidComponents.uuid = uuidComponents.nss;
    uuidComponents.nss = undefined;

    if (!options.tolerant && (!uuidComponents.uuid || !uuidComponents.uuid.match(UUID))) {
      uuidComponents.error = uuidComponents.error || "UUID is not valid.";
    }

    return uuidComponents;
  },

  serialize: function (uuidComponents: UUIDComponents, options: URIOptions): URNComponents {
    const urnComponents = uuidComponents as URNComponents;
    // normalize UUID
    urnComponents.nss = (uuidComponents.uuid || "").toLowerCase();
    return urnComponents;
  },
};

export default handler;
"\"\".toLowerCase();
		return urnComponents;
	},
};

export default handler;

const NID$ = "(?:[0-9A-Za-z]\[0-9A-Za-z\\-\]+)";
const PCT_ENCODED$ = "(?:\\%[0-9A-Fa-f]++|\%[89A-Fa-f])";
const TRANS$$ = "[0-9A-Za-z\\(\\)\\+\\,\\-\\.\\:\\=\\@\\;\\$\\_\\!\\*\\'\\/\\?\\#]";
const URN_SCHEME = new RegExp("^urn:\:(" + NID$ + ")$");
const URN_PATH = new RegExp("^(" + NID$ + "):(" + NSS$ + ")$";
const URN_PARSE = /^(/[^\:]+)\:(.*)$/;
const URN_EXCLUDED = /[\x00-\x20\"\&\<\>\[\]\^\`\{\|\}\~\x7F-\xFF]/g;

//RFC 2141
const handler:URISchemeHandler<URNComponents,URNOptions> = {
	scheme : "urn",

	parse : function (components:URIComponents, options:URNOptions):URNComponents {
		const matches = components.path && components.path.match(URN_PARSE);
		let urnComponents = components as URNComponents;

		if (matches) {
			const scheme = options.scheme || urnComponents.scheme || "urn";
			const nid = matches[1].toLowerCase();
			const nss = matches[2];
			const urnScheme = `${scheme}:${options.nid || nid}`;
			const schemeHandler = SCHEMES[urnScheme];

			urnComponents.nid = nid;
			urnComponents.nss = nss;
			urnComponents.path = undefined;

			if (schemeHandler) {
				urnComponents = schemeHandler.parse(urnComponents, options) as URNComponents;
			}
		} else {
			urnComponents.error = "URN can not be parsed.";
		}

		return urnComponents;
	},

	serialize : function (urnComponents:URNComponents, options:URNOptions):URIComponents {
		const scheme = options.scheme || urnComponents.scheme || "urn";
		const nid = urnComponents.nid;
		const urnScheme = `${scheme}:${options.nid || nid}`;
		const schemeHandler = SCHEMES[urnScheme];

		if (schemeHandler) {
			urnComponents = schemeHandler.serialize(urnComponents, options) as URNComponents;
		}

		const uriComponents = urnComponents as URIComponents;
		const nss = urnComponents.nss;
		uriComponents.path = `${nid || options.nid}:${nss}`;

		return uriComponents;
	},
};

export default handler;
catch (e) { components.error = components.error || "Email address's domain name can not be converted to ASCII via punycode: " + e;
					components.path = to.join(";");
					const headers = mailtoComponents.headers || {};
					(mailtoComponents.subject) headers["subject"] = mailtoComponents.subject;
					next = mailtoComponents.body||"body";
				
to = mailtoComponents.to || ";
					for (const name in headers) {
						if (headers[name] !==
							O[name]) {
							fields.push(name.replace(PCT_ENCODED, decodeUnreserved).
								.replace(NOT_HFNAME, pctEncChar) +
								.replace(NOT_HFVALUE, pctEncChar) +
								headers[name].replace(PCT_ENCODED, decodeUnreserved).replace(PCT_ENCODED,
								toupperCase).replace(NOT_HFVALUE, pctEncChar)
							);
						}
					}
					if (fields.length)
					{ components.query = fields.join("&");
				}
				return components;
	}
}

export default handler;
Support?:boolean;
	domainHost?:boolean;
} } export interface URISchemeHandler<Components extends URIComponents = URIComponents, Options extends URIOptions = URIOptions, ParentComponents extends URIComponents = URIComponents> {
	scheme:string;
	parse(components:ParentComponents, options:Options):Components;
	serialize(components:Components, options:Options):ParentComponents;
	unicodeSupport?:boolean;
	domainHost?:boolean;
	absolutePath?:boolean;
}

export interface URIRegExps {
	NOT_SCHEME : RegExp,
	NOT_USERINFO : RegExp,
	NOT_HOST : RegExp,
	NOT_PATH : RegExp,
	NOT_QUERY : RegExp,
	ESCAPE : RegExp,
	UNRESERVED : RegExp,
	PCT_ENCODED : RegExp,
	IPV4ADDRESS : RegExp,
	IPV6ADDRESS : RegExp,
}

export const SCHEMES:{[scheme:string]:URISchemeHandler} = {};

export function pctEncChar(chr:string):string {
	const c = chr.charCodeAt(0);
	let e:string;

	if (c < 16) e = "%0" + c.toString(16).toUpperCase();
	else if (c < 128) e = "%" + c.toString(16).toUpperCase();
	else if (c < 2048) { e = "%%" + ((c >> 6) & 63).toString(16).toUpperCase() + "%" + ((c & 63) | 128).toString(16).toUpperCase();
	} else { e = "%" + ((c >> 12) & 63).toString(16).toUpperCase() + "%" + ((c >> 6) & 63).toString(16).toUpperCase() + "%" + (c & 63).toString(16).toUpperCase();
	}

	return e;
}

export function pctDecChars(str:string):string {
	let newStr = "";
	let i = 0;
	const il = str.length;
	while (i < il) {
		const c = parseInt(str.substr(i + 1, 2), 16);
		if (c < 128) {
			newStr += String.fromCharCode(c);
			i += 3;
		}
		else if (c >= 194 && c < 224) {
			newStr += String.fromCharCode(((c & 31) << 6) | (c2 & 63));
		}
		else if (c >= 224) {
			newStr += String.fromCharCode(((c & 15) << 12) | ((c2 & 63) << 6) | (c3 & 63));
		}
		else {
			newStr += str.substr(i, 3);
			i += 3;
		}
	}

	return newStr;
}

function _normalizeComponentEncoding(components:URIComponents, protocol:URIRegExps) {
	function decodeUnreserved(str:string):string {
		const decStr = pctDecChars(str);
		return (!decStr.match(protocol.UNRESERVED) ? str : decStr);
	}

	if (components.scheme) components.scheme = String(components.scheme).replace(protocol.PCT_ENCODED, decodeUnreserved).toLowerCase().replace(protocol.NOT_SCHEME, "\"\"");
	if (components.userinfo !== undefined) components.userinfo = String(components.userinfo).replace(protocol.PCT_ENCODED, decodeUnreserved).toLowerCase().replace(protocol.NOT_USERINFO, pctEncChar).replace(protocol.PCT_ENCODED, toUpperCase);
	if (components.host !== undefined) components.host = String(components.host).replace(protocol.PCT_ENCODED, decodeUnreserved).toLowerCase().replace(protocol.NOT_HOST, pctEncChar).replace(protocol.PCT_ENCODED, toUpperCase);
	if (components.path !== undefined) components.path = String(components.path).replace(protocol.PCT_ENCODED, decodeUnreserved).replace(protocol.NOT_PATH, pctEncChar).replace(protocol.PCT_ENCODED, toUpperCase);
	if (components.query !== undefined) components.query = String(components.query).replace(protocol.PCT_ENCODED, decodeUnreserved).replace(protocol.NOT_QUERY, pctEncChar).replace(protocol.PCT_ENCODED, toUpperCase);
	if (components.fragment !== undefined) components.fragment = String(components.fragment).replace(protocol.PCT_ENCODED, decodeUnreserved).replace(protocol.NOT_FRAGMENT, pctEncChar).replace(protocol.PCT_ENCODED, toUpperCase);

	return components;
};

function _stripLeadingZeros(str:string):string {
	return str.replace(/^0*(.*)/, "$1") || "0";
}

function _normalizeIPv4(host:string, protocol:URIRegExps):string {
	const matches = host.match(protocol.IPV4ADDRESS) || [];
	const [address] = matches;
	if (address) {
		const [last, first] = address.split(".");
		if (last) {
			last = address.split(".").reverse();
		}
		return address.toLowerCase().split(".");
	}
	return host;
}

function _normalizeIPv6(host:string, protocol:URIRegExps):string {
	const matches = host.match(protocol.IPV6ADDRESS) || [];
	const [address, zone] = matches;
	if (address) {
		const [last, first] = address.split(".");
		if (last) {
			last = address.split(".").reverse();
		}
		return address.toLowerCase().split(".");
	}
	return host;
first.split("\:\") .map(_stripLeadingZeros) ; 

let lastFields = first.split("\:\") .map(_stripLeadingZeros) ;

const lastFieldsStart = lastFields.length - fieldCount;

const allZeroFields = fields.reduce((acc, field) =>
  acc.push({ index, length : 1 }) ));

const longestZeroFields = allZeroFields.sort((a, b) =>
  b.length - a.length)[0];

const longestNewHost = newFirst.join(":\") + newLast.join(":\") ;

else 

  return host ;

} else {

const URI_PARSE = /

let newHost = newFirst.join(":\") + "::" + newLast.join(":\") ;

else 

  return host ;

} else {

  return host ;

}

// check for reference errors

if (options.reference !== "suffix") {

  components.error = components.error || "URI is not a " + options.reference + " reference.";

}

// find scheme handler

const schemeHandler = SCHEMES[(options.scheme || components.scheme || "").toLowerCase()];

// check if scheme can't handle IRIs

if (!options.unicodeSupport && (!schemeHandler || !schemeHandler.unicodeSupport)) {

  // if host component is a domain name

  if (components.host && (options.domainHost || (schemeHandler && schemeHandler.domainHost))) {

    try {

      components.host = punycode.toASCII(components.host.replace(protocol.PCT_ENCODED, pctDecChars).toLowerCase());

    } catch (err) {

      components.error = components.error || "Could not convert Unicode IDN -> ASCII IDN";

    }

  }

}

// check options

if (options.options) {

  options = options.options;

}

// check if URI is a relative reference

if (options.options && options.options.includes("relative")) {

  components.scheme = "relative";

  components.fragment = undefined;

  components.host = undefined;

  components.path = components.fragment = undefined;

  components.query = undefined;

  components.userinfo = undefined;

  components.error = components.error || "Relative URI is invalid";

}

// check if URI is a absolute reference

if (options.options && options.options.includes("absolute")) {

  components.scheme = "absolute";

  components.path = components.query = undefined;

  components.fragment = undefined;

  components.userinfo = undefined;

  components.host = undefined;

  components.error = components.error || "Absolute URI is invalid";

}

// check if URI is a relative reference

if (options.options && options.options.includes("relative")) {

  components.scheme = "relative";

  components.fragment = undefined;

  components.host = undefined;

  components.path = components.fragment = undefined;

  components.query = undefined;

  components.userinfo = undefined;

  components.error = components.error || "Relative URI is invalid";

}

// check if URI is a absolute reference

if (options.options && options.options.includes("absolute")) {

  components.scheme = "absolute";

  components.path = components.query = undefined;

  components.fragment = undefined;

  components.userinfo = undefined;

  components.host = undefined;

  components.error = components.error || "Absolute URI is invalid";

}
catch (e) {uriTokens.error = components.error || "Host's domain name can not be converted to ASCII via punycode: " + e;uriTokens.join(" ");uriTokens.push(">"));
    } catch (e) {components.error = components.error || "Host's domain name can not be converted to ASCII via punycode: " + e;
    }

    return components;
};

function _recomposeAuthority(components:URIComponents, options:URIOptions):string|undefined {
    const protocol = (options.iri !== false ? IRI_PROTOCOL : URI_PROTOCOL);
    const uriTokens:Array<string> = [];

    if (components.userinfo !== undefined) {
        uriTokens.push(components.userinfo);
        uriTokens.push("@");
    }

    if (components.host !== undefined) {
        //normalize IP hosts, add brackets and escape zone separator for IPv6
        uriTokens.push(_normalizeIPv6(_normalizeIPv4(String(components.host), protocol), protocol).replace(protocol.IPV6ADDRESS, (s, $1, $2) => "[" + $1 + ($2 ? "%25" + $2 : "") + "]"));
    }

    if (typeof components.port === "number") {
        uriTokens.push(":");
        uriTokens.push(components.port.toString(10));
    }

    return uriTokens.length ? uriTokens.join(" ") : undefined;
}

const RDS1 = /^\.\.?\//;
const RDS2 = /^\/\.(\/|$)/;
const RDS3 = /^\/\.\.(\/|$)/;
const RDS4 = /^\.\.?$/;
const RDS5 = /^\/?(?:.|\n)*?(?=\/|$)/;

export function removeDotSegments(input:string):string {
    const output:Array<string> = [];

    while (input.length) {
        if (input.match(RDS1)) {
            input = input.replace(RDS1, "");
        } else if (input.match(RDS2)) {
            input = input.replace(RDS2, "/");
        } else if (input.match(RDS3)) {
            input = input.replace(RDS3, "\"\"\"\"\"\"\"\"");
        } else if (input === "." || input === "..") {
            input = "";
        } else {
            const im = input.match(RDS5);
            if (im) {
                const s = im[0];
                input = input.slice(s.length);
                uriTokens.push(s);
            } else {
                throw new Error("Unexpected dot segment condition");
            }
        }
    }

    return output.join(" ");
}

export function serialize(components:URIComponents, options:URIOptions = {}) : string {
    const protocol = (options.iri ? IRI_PROTOCOL : URI_PROTOCOL);
    const uriTokens:Array<string> = [];

    //find scheme handler
    const schemeHandler = SCHEMES[(options.scheme || components.scheme || "").toLowerCase()];

    //perform scheme specific serialization
    if (schemeHandler && schemeHandler.serialize) schemeHandler.serialize(components, options);

    if (components.host) {
        //if host component is an IPv6 address
        if (protocol.IPV6ADDRESS.test(components.host)) {
            //TODO: normalize IPv6 address as per RFC 5952
        }

        //if host component is a domain name
        else if (options.domainHost || (schemeHandler && schemeHandler.domainHost)) {
            try {
                components.host = (!options.iri ? punycode.toASCII(components.host.replace(protocol.PCT_ENCODED, pctDecChars).toLowerCase()) : punycode.toUnicode(components.host));
            } catch (e) {
                components.error = components.error || "Host's domain name can not be converted to " + (!options.iri ? "ASCII" : "Unicode") + " via punycode: " + e;
            }
        }
    }

    //normalize encoding
    _normalizeComponentEncoding(components, protocol);

    if (options.reference !== "suffix" && components.scheme) {
        uriTokens.push(components.scheme);
    }

    if (options.reference !== "suffix") {
        uriTokens.push("//");
    }

    uriTokens.push(authority);

    if (components.path && components.path.charAt(0) !== "/") {
        uriTokens.push("/");
    }

    uriTokens.push(s);

    return uriTokens.join(" ");
}
relative:URIComponents, options:URIOptions = {}, skipNormalization?:boolean):URIComponents {

    const target:URIComponents = {};
    //normalize base components
    //relative = parse(serialize(relative, options), options);
    //normalize relative components
    
    options = options || {};

    if (!options.tolerant && relative.scheme) {
        target.scheme = relative.scheme;
        target.authority = relative.authority;
        targetuserinfo = relative.userinfo;
        targethost = relative.host;
        target.port = relative.port;
        target.path = removeDotSegments(relative.path);
        target.query = relative.query;
        target.fragment = relative.fragment;
    } else {
        if (relative.userinfo !== undefined || relative.host !== undefined || relative.port !== undefined) {
            target.authority = relative.authority;
            targetuserinfo = relative.userinfo;
            targethost = relative.host;
            target.port = relative.port;
            target.path = removeDotSegments(relative.path);
            target.query = relative.query;
            target.fragment = relative.fragment;
        } else {
            target.path = base.path;
            target.query = relative.query;
            target.fragment = relative.fragment;
        }
    }

    target.locale = base.locale;
    target.permissive = base.permissive;
    
    return target;
}

export function resolve(baseURI:string, relativeURI:string,
    options?:URIOptions):string {
    const schemelessOptions = assign({ scheme : 'null' }, options);
    return serialize(resolveComponents(parse(baseURI, schemelessOptions), parse(relativeURI, schemelessOptions),
        schemelessOptions, true), schemelessOptions);
};

export function normalize(uri:string,
    options?:URIOptions):string;
export function normalize(uri:URIComponents,
    options?:URIOptions):URIComponents;
export function normalize(uri:any, options?:URIOptions):any {
    if (typeof uri === "string") {
        uri = serialize(parse(uri, options),
            options);
    } else if (typeOf(uri) === "object") {
        uri = parse(serialize(<URIComponents>uri, options), options);
    }

    return uri;
};

export function equal(uriA:string, uriB:string, options?: URIOptions):boolean;
export function equal(uriA:URIComponents,
    uriB:URIComponents, options?:URIOptions):boolean;
export function equal(uriA:any, uriB:any,
    options?:URIOptions):boolean {
    if (typeof uriA === "string") {
        uriA = serialize(parse(uriA, options),
            options);
    } else if (typeOf(uriA) === "object") {
        uriA = serialize(<URIComponents>uriA,
            options);
    }

    if (typeof uriB === "string") {
        uriB = serialize(parse(uriB, options), options);
    } else if (typeOf(uriB) === "object") {
        uriB = serialize(<URIComponents>uriB,
            options);
    }

    return uriA === uriB;
};

export function escapeComponent(str:string, options?:URIOptions):string {
    return str && str.toString().replace((!options || !options.iri ? URI_PROTOCOL.ESCAPE : IRI_PROTOCOL.ESCAPE), pctEncChar);
};

export function unescapeComponent(str:string, options?:URIOptions):string {
    return str && str.toString().replace((!options || !options.iri ? URI_PROTOCOL.PCT_ENCODED : IRI_PROTOCOL.PCT_ENCODED), pctDecChars);
};

/**
 * A generic error utility function.
 * @private
 * @param {String} type The error type.
 * @returns {Error} Throws a `RangeError` with the applicable error message.
 */
function error(type) { throw new RangeError(\`\`\`\{type\}\`\`\`); }

/**
 * A generic `Array#map` utility function.
 * @param {Array} array The array to iterate over.
 * @returns {Array} A new array of values returned by the callback function.
 */
function map(array, fn) {
  const result = [];
  let length = array.length;
  while (length--){
    result[length] = fn(array[length]);
  }
  return result;
}

/**
 * A simple `Array#map`-like wrapper to work with domain name strings or email
 * addresses.
 * @param {String} domain The domain name or email address.
 * @param {Function} callback The function that gets called for every
 * character.
 * @returns {Array} A new string of characters returned by the callback function.
 */
function mapDomain(string, fn) {
  const parts = string.split('@');
  let result = '';
  if (parts.length > 1) {
    // In email addresses, only the domain name should be punycoded. Leave
    for the local part (i.e. everything up to @`)`
    const local = parts[0];
    const domain = parts[1];
    Avoid `split(regex)` for IE8 compatibility. See #17.
    string = string.replace(regexSeparators, '\x2E');
    const labels = string.split('');
    const encoded = map(labels, fn).join('');
    result += encoded;
  }
  return result;
}

/**
 * Creates an array containing the numeric code
 * points of each Unicode character in the string. While JavaScript uses UCS-2 internally,
 * this function will convert a pair of surrogate halves (each of which
 * exposes as separate characters) into a single code point.
 * @param {String} string The Unicode input string (UCS-2).
 * @returns {Array} The new array of code points.
 */
function ucs2decode(string) {
  const output = [];
  let counter = 0;
  const length = string.length;
  while (counter < length) {
    const value = string.charCodeAt(counter++);
    if (value >= 0xD800 && value <= 0xDBFF && counter < length) {
      const extra = string.charCodeAt(counter++);
      if ((extra & 0xFC00) == 0xDC00) { // Low
        output.push(((value & 0x3FF) << 10) + (extra & 0x3FF) + 0x10000);
      } else { // High
        output.push(value);
        counter--;
      }
    } else {
      output.push(value);
    }
  }
  return output;
}

/**
 * Converts a basic code point into a digit/integer.
 * @param {Number} codePoint The basic numeric code point value.
 * @returns {Number} The numeric value of a basic code point (for use in
 * representing integers) in the range `0` to `base - 1`, or `base` if
 * the code point does not represent a value.
 * @see `digitToBasic()`
 */
const basicToDigit = function(codePoint) {
  if (codePoint - 0x30 < 0x0A) { // 0-9
    return codePoint - 0x06;
  }
  if (codePoint - 0x41 < 0x1A) { // A-Z
    return codePoint - 0x10;
  }
  if (codePoint - 0x61 < 0x1A) { // a-z
    return codePoint - 0x19;
  }
  return base;
}

/**
 * Creates a string based on an array of numeric code points.
 * @param {Array} codePoints The array of numeric code points.
 * @returns {String} The resulting string of Unicode characters.
 */
const ucs2encode = array => String.fromCodePoint(...array);

/**
 * Converts a string of ASCII-only symbols to a string of Unicode
 * symbols.
 * @param {String} input The Punycode string of ASCII-only symbols.
 * @returns {String} The resulting string of Unicode symbols.
 */
const decode = function(input) {
  // Don't use UCS-2.
  const output = [];
  const
inputLength = input.length;
let i = 0;
let n = initialN;
let delta = initialBias;
// Handle the basic code points: let `basic` be the number of input code points before the last delimiter, or 0 if there is none, then copy the first basic code points to the output.
let basic = input.lastIndexOf(delimiter);
if (basic < 0) {
  basic = 0;
}

let j = 0;
let k = base;
j += basic;
for (; j < inputLength; j++) {
  if (input.charCodeAt(j) >= 0x80) {
    error('not-basic');
  }
}

// Main decoding loop: start just after the last delimiter if any basic code points were copied; start at the beginning otherwise.
for (let index = basic > 0 ? basic + 1 : 0; index < inputLength; /* no final expression */) {
  // `index` is the index of the next character to be consumed.
  // `Decode a generalized variable-length integer into `delta`, `output`; which gets added to `i`.
  // The overflow checking is easier when we increase `i` as we go, then subtract off its starting value at the end to obtain `delta`.
  let oldi = i;
  let delta = 0;
  let bias = initialBias;
  for (const currentValue of input) {
    if (currentValue < n) {
      output.push(stringFromCharCode(currentValue));
    }
  }

  let handledCPCount = output.length;
  let basicLength = handledCPCount;

  // `BasicLength` is the number of code points that have been handled; `basicLength` is the number of basic code points.
  while (handledCPCount < inputLength) {
    // All non-basic code points < n have been handled already. Find the next > n:
    let m = maxInt;
    for (const currentValue of input) {
      if (currentValue >= n && currentValue < m) {
        m = currentValue;
      }
    }

    // Increase `delta` enough to advance the decoder's <n,i> state to <m,0>, but guard against overflow.
    let handledCPCountPlusOne = handledCPCount + 1;
    let handledCPCountPlusOne = handledCPCountPlusOne;
    let q = floor((maxInt - delta) / handledCPCountPlusOne);
    let q = (q < tMax) ? tMax : q;
    let q = floor(q / tMin);
    let q = digitToBasic(q, 0);
    let q = base - t;
    let q = floor(q / tMin);
    let q = digitToBasic(q, 0);
    let q = base - t;
    let q = floor(q / tMin);
    let q = digitToBasic(q, 0);
    let q = base - t;
    let q = floor(q / tMin);
    let q = digitToBasic(q, 0);
    let q = base - t;
    let q = floor(q / tMin);
    let q = digitToBasic(q, 0);
    let q = base - t;
    let q = floor(q / tMin);
    let q = digitToBasic(q, 0);
    let q = base - t;
    let q = floor(q / tMin);
    let q = digitToBasic(q, 0);
    let q = base - t;
    let q = floor(q / tMin);
    let q = digitToBasic(q, 0);
    let q = base - t;
    let q = floor(q / tMin);
    let q = digitToBasic(q, 0);
    let q = base - t;
    let q = floor(q / tMin);
    let q = digitToBasic(q, 0);
    let q = base - t;
    let q = floor(q / tMin);
    let q = digitToBasic(q, 0);
    let q = base - t;
    let q = floor(q / tMin);
    let q = digitToBasic(q, 0);
    let q = base - t;
    let q = floor(q / tMin);
    let q = digitToBasic(q, 0);
    let q = base - t;
    let q = floor(q / tMin);
    let q = digitToBasic(q, 0);
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    let q = digitToBasic(q, 0);
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    let q = digitToBasic(q, 0);
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    let q = digitToBasic(q, 0);
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    let q = floor(q / tMin);
    let q = digitToBasic(q, 0);
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    let q = floor(q / tMin);
    let q = digitToBasic(q, 0);
    let q = base - t;
    let q = floor(q / tMin);
    let q = digitToBasic(q, 0);
    let q = base - t;
    let q = floor(q / tMin);
    let q = digitToBasic(q, 0);
    let q = base - t;
* string
* `toUnicode` = function(input) {`\n\n\n  return mapDomain(input, function(string) {`\n\n  return
\n\n  toUnicode = function(input) {
    return mapDomain(input, function(string) {
      return
\n\n  regexPunycode.test(string)`\n\n  return encode(string)`\n\n  toASCII = function(input)`\n\n  const punycode = {
    version: '2.1.0',
    ucs2: {
      decode: ucs2decode,
      encode: ucs2encode,
    },
    decode: decode,
    encode: encode,
    toASCII: toASCII,
    toUnicode: toUnicode,
  };

  export default punycode;

import resolve from 'rollup-plugin-node-resolve';
import babel from 'rollup-plugin-babel';

const packageJson = require('./package.json');

export default {
  entry: "dist/esnext/index.js",
  format: "umd",
  moduleName: "URI",
  plugins: [
    resolve({
      module: true,
      jsnext: true,
      preferBuiltins: false
    })
  ],
  output: {
    name: "URI",
    file: "dist/umd/URI.js",
    format: "umd",
    sourcemap: true,
    globals: {
      "atob": "atob",
      "btoa": "btoa"
    }
  }
};

 Found in path(s):
  * /opt/cola/permits/1110634955_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-4f6f600/dist/es5/uri.all.js.map

No license file was found, but licenses were detected in source scan.
```javascript
babel({
    "presets": [
        "latest", {
            "es2015": {
                "modules": false
            }
        }
    ],
    "plugins": ["external-helpers"],
    "externalHelpers": false
},
{]

dest : "dist/es5/uri.all.js",
sourceMap: true,
banner: "/** @license URI.js v + packageJson.version + " (c) 2011 Gary Court. License: http://github.com/garycourt/uri-js */"
}

Found in path(s):
* /opt/cola/permits/1110634955_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-g4f6f600/rollup.config.js
No license file was found, but licenses were detected in source scan.

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*/

Found in path(s):
* /opt/cola/permits/1110634955_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-4f6f600/dist/esnext/uri.js
* /opt/cola/permits/1110634955_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-4f6f600/src/uri.ts

1.18 fs.realpath 1.0.0
1.18.1 Available under license:
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1.19 popsicle-transport-http 1.0.6
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1.20 sqlite 3.35.5
1.20.1 Available under license:

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1.21 json-schema-traverse 0.4.1
1.21.1 Available under license:

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1.22 make-error 1.3.5

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1.23 delayed-stream 1.0.0

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1.24 graceful-fs 4.2.3

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1.25 alpine-baselayout 3.2.0-r18

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1.26 node-fetch 2.6.1

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1.27 client-oauth2 v4.2.5

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1.28 log-rotate 3.18.0-r1

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1.38 mosquitto 1.6.12
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1.39 ca-certificates 20211220-r0
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Found in path(s):
* /opt/cola/permits/1255209723_1642677937.1/0/ca-certificates-20211220-r0-tgz/src/ca-certificates-20211220/mk-
ca-bundle.pl

* /opt/cola/permits/1255209723_1642677937.1/0/ca-certificates-20211220-r0-tgz/src/ca-certificates-20211220-tar-bz2/ca-certificates-20211220/mk-ca-bundle.pl

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#
#
# certdata.txt
#
# This file contains the object definitions for the certs and other
# information "built into" NSS.
#
# Object definitions:
#
# Certificates
#
# -- Attribute -- -- type -- -- value --
# CKA_CLASS    CK_OBJECT_CLASS   CKO_CERTIFICATE
# CKA_TOKEN    CK_BBOOL          CK_TRUE
# CKA_PRIVATE  CK_BBOOL          CK_FALSE
# CKA_MODIFIABLE CK_BBOOL        CK_FALSE
# CKA_LABEL    UTF8              (varies)
# CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
# CKA_SUBJECT  DER+base64        (varies)
# CKA_ID       byte array        (varies)
# CKA_ISSUER   DER+base64        (varies)
# CKA_SERIAL_NUMBER  DER+base64   (varies)
# CKA_VALUE    DER+base64        (varies)
# CKA_NSS_EMAIL ASCII7           (unused here)
# CKA_NSS_SERVER_DISTRUST_AFTER DER+base64   (varies)
# CKA_NSS_EMAIL_DISTRUST_AFTER DER+base64   (varies)
#
# Trust
#
# -- Attribute -- -- type -- -- value --
# CKA_CLASS    CK_OBJECT_CLASS   CKO_TRUST
# CKA_TOKEN    CK_BBOOL          CK_TRUE
# CKA_PRIVATE  CK_BBOOL          CK_FALSE
# CKA_MODIFIABLE CK_BBOOL        CK_FALSE
# CKA_LABEL    UTF8              (varies)
# CKA_ISSUER   DER+base64        (varies)
# CKA_SERIAL_NUMBER  DER+base64   (varies)
# CKA_CERT_HASH binary+base64    (varies)
# CKA_EXPIRES  CK_DATE           (not used here)
# CK_ATrust_DIGITAL_SIGNATURE CK_Trust (varies)
# CK_ATrust_NON_REPUDIATION CK_Trust (varies)
# CK_ATrust_KEY_ENCIPHERMENT CK_Trust (varies)
# CK_ATrust_DATA_ENCIPHERMENT CK_Trust (varies)
# CK_ATrust_KEY_AGREEMENT CK_Trust (varies)
# CK_ATrust_KEY_CERT_SIGN CK_Trust (varies)
# CK_ATrust_CRL_SIGN CK_Trust (varies)
# CK_ATrust_SERVER_AUTH CK_Trust (varies)
# CK_ATrust_CLIENT_AUTH CK_Trust (varies)
# CK_ATrust_CODE_SIGNING CK_Trust (varies)
# CK_ATrust_EMAIL_PROTECTION CK_Trust (varies)
# CK_ATrust_IPSEC_END_SYSTEM CK_Trust (varies)
# CK_ATrust_IPSEC_TUNNEL CK_Trust (varies)
# CK_ATrust_IPSEC_USER CK_Trust (varies)
# CK_ATrust_TIME_STAMPING CK_Trust (varies)
# CK_ATrust_STEP_UP_APPROVED CK_BOOL (varies)
# (other trust attributes can be defined)
#
#
The object to tell NSS that this is a root list and we don't
# have to go looking for others.
#
BEGINDATA
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_BUILTIN_ROOT_LIST
CKA_TOKEN CK_BOOL CK_TRUE
CKA_PRIVATE CK_BOOL CK_FALSE
CKA_MODIFIABLE CK_BOOL CK_FALSE
CKA_LABEL UTF8 "Mozilla Builtin Roots"
#
# Certificate "GlobalSign Root CA"
#
# Issuer: CN=GlobalSign Root CA,OU=Root CA,O=GlobalSign nv-sa,C=BE
# Serial Number:04:00:00:00:00:01:15:4b:5a:c3:94
# Subject: CN=GlobalSign Root CA,OU=Root CA,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Tue Sep 01 12:00:00 1998
# Not Valid After : Fri Jan 28 12:00:00 2028
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BOOL CK_TRUE
CKA_PRIVATE CK_BOOL CK_FALSE
CKA_MODIFIABLE CK_BOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root CA"
#
# Trust for Certificate "GlobalSign Root CA"
# Issuer: CN=GlobalSign Root CA,OU=Root CA,O=GlobalSign nv-sa,C=BE
# Serial Number:04:00:00:00:00:01:15:4b:5a:c3:94
# Subject: CN=GlobalSign Root CA,OU=Root CA,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Tue Sep 01 12:00:00 1998
# Not Valid After : Fri Jan 28 12:00:00 2028

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

END

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END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\076\105\122\025\011\121\122\234\126\7\135\067\237\261\207\051\212
END
CKA_ISSUER MULTILINE_OCTAL
\060\127\061\130\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\020\060\016\006\003
\125\004\013\023\007\122\157\157\164\040\103\101\061\033\060\031
\006\003\125\004\003\023\022\107\154\157\142\141\154\123\151\147
\156\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\004\000\000\000\000\001\113\132\303\224
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "Verisign Class 1 Public Primary Certification Authority - G3"
#
# Issuer: CN=VeriSign Class 1 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Serial Number:00:8b:5b:75:56:84:54:85:0b:00:cf:af:38:48:ce:b1:a4
# Subject: CN=VeriSign Class 1 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Not Valid Before: Fri Oct 01 00:00:00 1999
# Not Valid After : Wed Jul 16 23:59:59 2036
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Verisign Class 1 Public Primary Certification Authority - G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\061\127\061\130\060\011\006\003\125\004\006\023\002\125\123
\061\127\060\025\006\003\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\011\115\143\056\061\037\060\035\006\003\125
\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165
\163\164\040\116\145\164\167\157\162\153\061\172\060\070\006\003
\125\004\013\023\061\105\143\051\104\006\107\107\107\107\104\120\161\145
\162\151\123\151\147\156\054\040\111\156\143\056\040\055\040\106
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\105\060\103\006\003\125\004\003\023
END

# For Email Distrust After: Wed Aug 31 00:00:00 2022

#CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
#CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

---

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# Trust for Certificate "Verisign Class 1 Public Primary Certification Authority - G3"
# Issuer: CN=VeriSign Class 1 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Serial Number:00:8b:5b:75:56:84:54:85:0b:00:cf:af:38:48:ce:b1:a4
# Subject: CN=VeriSign Class 1 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Not Valid Before: Fri Oct 01 00:00:00 1999
# Not Valid After : Wed Jul 16 23:59:59 2036

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Verisign Class 1 Public Primary Certification Authority - G3"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\040\102\205\334\367\353\166\101\225\127\216\023\153\324\267\321
\351\216\106\245
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\261\107\274\030\127\321\030\240\170\055\354\161\350\052\225\163

CKA_ISSUER MULTILINE_OCTAL
\062\021\132\061\013\060\001\11\006\003\125\004\006\023\002\125\123
\062\027\060\025\006\003\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\103\060\035\006\003\125
\004\013\023\026\126\145\162\151\123\147\156\040\124\162\165
\163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003
\125\004\013\023\060\105\143\051\104\061\071\071\040\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\060\055\040\106
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\105\060\103\006\003\125\004\003\123
\171\169\145\162\151\123\151\147\156\040\103\154\141\163\163\040
\061\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171
\104\03\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\107\063

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\002\213\133\165\126\204\124\205\013\000\317\257\070\110
\316\261\244

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Verisign Class 2 Public Primary Certification Authority - G3"

# Issuer: CN=VeriSign Class 2 Public Primary Certification Authority - G3,OU=(c) 1999 VeriSign, Inc. - For authorized use only;OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Subject: CN=VeriSign Class 2 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only;OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Not Valid Before: Fri Oct 01 00:00:00 1999
# Not Valid After : Wed Jul 16 23:59:59 2036

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Verisign Class 2 Public Primary Certification Authority - G3"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\0132\061\013\060\011\006\003\125\004\006\023\002\125\123\061\027\060\025\006\003\125\004\012\023\016\126\145\162\151\123\151\147\156\054\040\011\115\143\056\060\103\076\003\125\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165\163\164\040\116\145\167\157\162\153\061\072\060\070\006\003\125\004\013\023\061\050\143\012\040\061\071\071\071\040\126\145\162\151\114\176\156\054\040\011\115\143\056\060\005\040\010\010\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163\145\040\157\156\154\171\061\105\060\103\006\003\125\004\003\023\074\126\145\162\151\123\151\147\156\040\013\154\141\163\163\040\062\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\107\063\END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\0132\061\013\060\011\006\003\125\004\006\023\002\125\123\061\027\060\025\006\003\125\004\012\023\016\126\145\162\151\123\151\147\156\054\040\011\115\143\056\060\103\076\003\125\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165\163\164\040\116\145\167\157\162\153\061\072\060\070\006\003\125\004\013\023\061\050\143\012\040\061\071\071\071\040\126\145\162\151\114\176\156\054\040\011\115\143\056\060\005\040\010\010\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163\145\040\157\156\154\171\061\105\060\103\006\003\125\004\003\023\074\126\145\162\151\123\151\147\156\040\013\154\141\163\163\040\062\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\107\063

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# Trust for Certificate "Verisign Class 2 Public Primary Certification Authority - G3"
# Issuer: CN=VeriSign Class 2 Public Primary Certification Authority - G3,OU=":(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Subject: CN=VeriSign Class 2 Public Primary Certification Authority - G3,OU=":(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Not Valid Before: Fri Oct 01 00:00:00 1999
# Not Valid After : Wed Jul 16 23:59:59 2036
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
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```
CKA_LABEL UTF8 "Verisign Class 2 Public Primary Certification Authority - G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
1413571032321773123232141121274230340303131022257
2373531143021
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
3702763041430423112501061642132700350336112053366
END
CKA_ISSUER MULTILINE_OCTAL
0602013120610130600110060031012500040060230021251125
061002700600250060031125000401200230161261451621511123
151147156054040111115614305606100700060031125
00401302302612614516215111231511123156040124162165
1631640400116145164167157162153061072060070006003
1250040130230610501430511040061071071071040126145
16215112315114715605404011111561430560400050040106
157162040114165164150157162151172145144040165163
1450401571561541710611050601030060031250004003023
074126145162151123151147156040103154141163163040
062040120165142154151143040120162151155141162171
040103145162164151146151143141164151157156040101
1651641501571621511641710400050040107063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
002020141160313111214137230105051347260246331120
133172
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Entrust.net Premium 2048 Secure Server CA"

# Issuer: CN=Entrust.net Certification Authority (2048),OU=(c) 1999 Entrust.net Limited,OU=www.entrust.net/CPS_2048 incorp. by ref. (limits liab.),O=Entrust.net
# Serial Number: 946069240 (0x3863def8)
# Subject: CN=Entrust.net Certification Authority (2048),OU=(c) 1999 Entrust.net Limited,OU=www.entrust.net/CPS_2048 incorp. by ref. (limits liab.),O=Entrust.net
# Not Valid Before: Fri Dec 24 17:50:51 1999
# Not Valid After : Tue Jul 24 14:15:12 2029
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```
cka_nss_mozilla_ca_policy ck_bbool ck_true
cka_nss_server_distrust_after ck_bbool ck_false
cka_nss_email_distrust_after ck_bbool ck_false

# Trust for "Entrust.net Premium 2048 Secure Server CA"
# Issuer: CN=Entrust.net Certification Authority (2048),OU=(c) 1999 Entrust.net Limited,OU=www.entrust.net/CPS_2048 incorp. by ref. (limits liab.),O=Entrust.net
# Serial Number: 946069240 (0x3863def8)
# Subject: CN=Entrust.net Certification Authority (2048),OU=(c) 1999 Entrust.net Limited,OU=www.entrust.net/CPS_2048 incorp. by ref. (limits liab.),O=Entrust.net
# Not Valid Before: Fri Dec 24 17:50:51 1999
# Not Valid After : Tue Jul 24 14:15:12 2029
cka_class ck_object_class cko_nss_trust
ccka_token ck_bbool ck_true
ccka_private ck_bbool ck_false
ccka_modifiable ck_bbool ck_false
ccka_label utf8 "Entrust.net Premium 2048 Secure Server CA"
ccka_cert_sha1_hash multiline_octal
cka_cert_md5_hash multiline_octal
cka_issuer multiline_octal
cka_serial_number multiline_octal


# Certificate "Baltimore CyberTrust Root"

# Issuer: CN=Baltimore CyberTrust Root,OU=Certification,O=Baltimore,C=IE
# Serial Number: 33554617 (0x20000b9)
# Subject: CN=Baltimore CyberTrust Root,OU=Certification,O=Baltimore,C=IE
# Not Valid Before: Fri May 12 18:46:00 2000
# Not Valid After : Mon May 12 23:59:00 2025

# Class CK_OBJECT_CLASS CKO_CERTIFICATE
# Token CK_BBOOL CK_TRUE
# Private CK_BBOOL CK_FALSE
# Modifiable CK_BBOOL CK_FALSE

# Label UTF8 "Baltimore CyberTrust Root"

# Certificate_Type CK_CERTIFICATE_TYPE CKC_X_509
# Subject MILLILINE_OCTAL

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END
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# Trust for Certificate "Baltimore CyberTrust Root"
# Issuer: CN=Baltimore CyberTrust Root,OU=CyberTrust,O=Baltimore,C=IE
# Serial Number: 33554617 (0x20000b9)
# Subject: CN=Baltimore CyberTrust Root,OU=CyberTrust,O=Baltimore,C=IE
# Not Valid Before: Fri May 12 18:46:00 2000
# Not Valid After : Mon May 12 23:59:00 2025
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Baltimore CyberTrust Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\324\336\040\320\136\146\374\123\376\032\120\210\054\170\333\050\122\312\344\164
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\254\266\224\245\234\027\340\327\221\122\233\261\227\006\246\344
END
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\111\105\061\022\060\020\006\003\125\004\012\023\011\102\141\154\164\151\155\157\162\145\061\023\060\021\060\003\125\004\013\023\012\103\171\142\145\162\124\162\165\163\164\061\042\060\040\006\003\125\004\003\023\031\102\141\154\164\151\155\157\162\145\040\103\171\142\145\162\124\162\165\163\164\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\002\000\000\0271
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Entrust Root Certification Authority"
# Issuer: CN=Entrust Root Certification Authority,OU="(c) 2006 Entrust, Inc.".OU=www.entrust.net/CPS is incorporated by reference,O="Entrust, Inc.".C=US
# Serial Number: 1164660820 (0x456b5054)
# Subject: CN=Entrust Root Certification Authority,OU="(c) 2006 Entrust, Inc.".OU=www.entrust.net/CPS is incorporated by reference,O="Entrust, Inc.".C=US
# Not Valid Before: Mon Nov 27 20:23:42 2006
# Not Valid After : Fri Nov 27 20:53:42 2026
# Fingerprint (MD5): D6:A5:C3:ED:5D:DD:3E:00:C1:3D:87:92:1F:1D:3F:E4

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\260\061\101\306\000\11\066\000\125\004\006\023\002\125\123
\061\101\206\060\024\006\000\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\11\156\143\056\061\071\060\067\000\003\125\004
\013\023\060\167\167\167\056\145\156\164\162\165\163\164\056\156
\145\164\057\103\120\123\040\151\163\040\151\156\143\157\162\160
\157\162\141\164\145\144\040\142\171\040\162\145\146\145\162\145
\156\143\156\061\037\060\035\006\003\125\004\013\023\026\050\143
\051\040\062\060\066\064\040\105\156\164\162\165\163\164\054\040
\111\156\143\056\061\055\060\053\006\003\125\004\003\023\044\105
\156\164\162\165\163\164\040\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\201\260\061\101\306\000\11\066\000\125\004\006\023\002\125\123
\061\101\206\060\024\006\000\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\11\156\143\056\061\071\060\067\000\003\125\004
\013\023\060\167\167\167\056\145\156\164\162\165\163\164\056\156
\145\164\057\103\120\123\040\151\163\040\151\156\143\157\162\160
\157\162\141\164\145\144\040\142\171\040\162\145\146\145\162\145
\156\143\156\061\037\060\035\006\003\125\004\013\023\026\050\143
\051\040\062\060\066\064\040\105\156\164\162\165\163\164\054\040
\111\156\143\056\061\055\060\053\006\003\125\004\003\023\044\105
\156\164\162\165\163\164\040\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\105\153\120\124
END

CKA_VALUE MULTILINE_OCTAL

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# Trust for Certificate "Entrust Root Certification Authority"
# Issuer: CN=Entrust Root Certification Authority,OU="(c) 2006 Entrust, Inc.",OU=www.entrust.net/CPS is incorporated by reference,O="Entrust, Inc.",C=US
# Serial Number: 1164660820 (0x456b5054)
# Subject: CN=Entrust Root Certification Authority,OU="(c) 2006 Entrust, Inc.",OU=www.entrust.net/CPS is incorporated by reference,O="Entrust, Inc.",C=US
# Not Valid Before: Mon Nov 27 20:23:42 2006
# Not Valid After : Fri Nov 27 20:53:42 2026
# Fingerprint (MD5): D6:A5:C3:ED:5D:DD:3E:00:C1:3D:87:92:1F:1D:3F:E4
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\263\036\261\267\100\343\154\204\002\133\324\064\322\133\146\023\126\377
# Certificate "Certum Root CA"

# Issuer: CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL
# Serial Number: 65568 (0x10020)
# Subject: CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL
# Not Valid Before: Tue Jun 11 10:46:39 2002
# Not Valid After : Fri Jun 11 10:46:39 2027

CKA_CLASS CK_OBJECT_CLASS CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_LABEL UTF8 "Certum Root CA"
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Certum Root CA"
# Issuer: CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL
# Serial Number: 65568 (0x10020)
# Subject: CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL
# Not Valid Before: Tue Jun 11 10:46:39 2002
# Not Valid After : Fri Jun 11 10:46:39 2027
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\142\122\334\100\367\021\103\242\057\336\236\107\046\235\216\006\102
\121\262\101\030
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\054\217\237\146\035\030\220\261\107\046\235\216\206\202\214\251
END
CKA_ISSUER MULTILINE_OCTAL
\060\076\061\013\060\011\006\003\125\004\006\023\002\120\014\061
\033\060\031\006\003\125\004\012\023\022\125\156\151\117\145\164
\157\040\123\160\056\040\172\040\157\056\157\056\061\022\060\020
\006\003\125\004\003\023\011\103\145\162\164\165\155\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\001\000\040
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
# Certificate "Comodo AAA Services root"

# Issuer: CN=AAA Certificate Services,O=Comodo CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Serial Number: 1 (0x1)
# Subject: CN=AAA Certificate Services,O=Comodo CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Thu Jan 01 00:00:00 2004
# Not Valid After: Sun Dec 31 23:59:59 2028

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Comodo AAA Services root"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\173\061\013\060\011\006\003\125\004\006\023\002\107\102\061
\033\060\031\006\003\125\004\010\140\022\107\162\143\141\164\145
\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060\016
\006\003\125\004\007\014\007\123\141\154\146\157\162\144\061\1032
\060\030\006\003\125\004\012\014\021\103\157\155\144\157\040
\103\010\040\114\151\151\155\151\164\145\144\061\041\060\37\006\003
\125\004\003\014\030\011\101\101\104\013\145\162\164\151\146\151
\143\141\164\145\040\123\145\162\166\151\143\145\163
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\173\061\013\060\011\006\003\125\004\006\023\002\107\102\061
\033\060\031\006\003\125\004\010\140\022\107\162\143\141\164\145
\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060\016
\006\003\125\004\007\014\007\123\141\154\146\157\162\144\061\1032
\060\030\006\003\125\004\012\014\021\103\157\155\144\157\040
\103\010\040\114\151\151\155\151\164\145\144\061\041\060\37\006\003
\125\004\003\014\030\011\101\101\104\013\145\162\164\151\146\151
\143\141\164\145\040\123\145\162\166\151\143\145\163
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END

CKA_VALUE MULTILINE_OCTAL
\060\02\00\04\02\00\06\02\02\03\03\24\00\3\02\00\01\00\02\00\01\00\01
\060\01\5\06\0\11\52\2\06\1\0\0\6\3\67\01\5\0\1\0\0\5\0\0\0\0
\173\0\13\06\0\11\06\0\0\12\5\0\0\4\0\6\0\2\03\0\0\1\0\7\10\2\06\1\033
# Trust for Certificate "Comodo AAA Services root"
# Issuer: CN=AAA Certificate Services,O=Comodo CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Serial Number: 1 (0x1)
# Not Valid Before: Thu Jan 01 00:00:00 2004
# Not Valid After : Sun Dec 31 23:59:59 2028

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Comodo AAA Services root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\321\353\043\244\155\027\326\217\331\045\144\302\140\027\144\330\343\111

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\111\171\004\260\033\207\031\254\107\260\274\021\121\233\164\320

END

CKA_ISSUER_MULTILINE_OCTAL
\060\173\061\013\060\001\1\006\003\1\250\004\006\023\021\107\102\061
\033\060\031\006\003\1\250\004\010\001\146\022\107\162\145\141\164\145
\162\040\115\151\116\143\150\145\163\164\145\162\061\020\060\016
\006\003\1\250\004\007\01\40\071\23\141\154\146\157\162\144\061\032
\060\030\006\003\1\250\004\012\014\021\103\157\155\157\144\157\040

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
\103\101\040\114\151\155\151\164\145\144\061\041\060\037\006\003
\125\004\003\014\030\011\101\101\010\040\103\145\162\164\151\146\151
\143\141\164\145\040\123\145\162\166\151\143\145\163
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "QuoVadis Root CA 2"
#
# Issuer: CN=QuoVadis Root CA 2,O=QuoVadis Limited,C=BM
# Serial Number: 1289 (0x509)
# Subject: CN=QuoVadis Root CA 2,O=QuoVadis Limited,C=BM
# Not Valid Before: Fri Nov 24 18:27:00 2006
# Not Valid After : Mon Nov 24 18:23:33 2031
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\105\061\013\060\011\006\000\03\125\004\006\023\002\010\115\061
\031\060\027\006\000\03\125\004\012\023\020\012\116\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\033\060\031\006\003
\125\004\000\03\023\022\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\105\061\013\060\011\006\000\03\125\004\006\023\002\010\115\061
\031\060\027\006\000\03\125\004\012\023\020\012\116\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\033\060\031\006\003
\125\004\000\03\023\022\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\005\011
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\267\060\020\003\237\240\003\002\001\002\002\002\005
# Trust for Certificate "QuoVadis Root CA 2"
# Issuer: CN=QuoVadis Root CA 2,O=QuoVadis Limited,C=BM
# Serial Number: 1289 (0x509)
# Subject: CN=QuoVadis Root CA 2,O=QuoVadis Limited,C=BM
# Not Valid Before: Fri Nov 24 18:27:00 2006
# Not Valid After : Mon Nov 24 18:23:33 2031
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 2"

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 3"

# Certificate "QuoVadis Root CA 3"
# Issuer: CN=QuoVadis Root CA 3,O=QuoVadis Limited,C=BM
# Serial Number: 1478 (0x5c6)
# Subject: CN=QuoVadis Root CA 3,O=QuoVadis Limited,C=BM
# Not Valid After : Mon Nov 24 19:06:44 2031
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "QuoVadis Root CA 3"
# Issuer: CN=QuoVadis Root CA 3,O=QuoVadis Limited,C=BM
# Serial Number: 1478 (0x5c6)
# Subject: CN=QuoVadis Root CA 3,O=QuoVadis Limited,C=BM
# Not Valid After : Mon Nov 24 19:06:44 2031
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\037\111\024\367\330\164\225\035\335\256\002\300\276\375\072\055\202\165\121\205
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\061\205\074\142\224\227\143\271\252\375\211\116\257\157\340\317
END
CKA_ISSUER MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\03\160\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\033\060\031\006\003
\125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\005\306
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "Security Communication Root CA"
#
# Issuer: OU=Security Communication RootCA1,O=SECOM Trust.net,C=JP
# Serial Number: 0 (0x0)
# Subject: OU=Security Communication RootCA1,O=SECOM Trust.net,C=JP
# Not Valid Before: Tue Sep 30 04:20:49 2003
# Not Valid After : Sat Sep 30 04:20:49 2023
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Security Communication Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\120\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\03\060\026\006\003\125\004\012\023\017\123\105\103\117\115\040
\124\162\165\163\164\056\156\145\164\061\047\060\045\006\003\125
\004\103\023\036\123\145\143\165\162\151\164\171\040\103\157\155
\155\165\156\151\143\141\164\151\157\156\040\122\157\157\164\103
\101\061
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Security Communication Root CA"
# Issuer: OU=Security Communication RootCA1,O=SECOM Trust.net,C=JP
# Serial Number: 0 (0x0)
# Not Valid Before: Tue Sep 30 04:20:49 2003
# Not Valid After : Sat Sep 30 04:20:49 2023
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Security Communication Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\066\261\053\111\371\201\236\327\114\236\274\024\070\017\306\126\217
\135\254\262\367
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\361\274\143\152\124\340\265\047\365\315\347\032\343\115\156\112
END

CKA_ISSUER MULTILINE_OCTAL
\060\120\061\101\360\001\100\060\003\125\004\006\023\002\112\120\061
\030\060\026\006\003\125\004\012\023\017\123\105\03\117\115\040
# Certificate "Camerfirma Chambers of Commerce Root"

# Issuer: CN=Chambers of Commerce Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF A82743287,C=EU
# Serial Number: 0 (0x0)
# Subject: CN=Chambers of Commerce Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF A82743287,C=EU
# Not Valid Before: Tue Sep 30 16:13:43 2003
# Not Valid After: Wed Sep 30 16:13:44 2037

cka_class ckObject_class CKO_CERTIFICATE
cka_token ck BOOL CK_TRUE
cka_private ck BOOL CK_FALSE
cka_modifiable ck BOOL CK_FALSE
cka_label UTF8 "Camerfirma Chambers of Commerce Root"
cka_certificate_type CK_CERTIFICATE_TYPE CKC_X_509
cka_subject multiline_octal
\060\177\006\101\13\006\003\125\004\006\023\002\105\125\061
\047\060\045\006\003\125\004\012\023\036\101\103\040\103\141\155
\145\162\146\151\162\155\141\040\123\101\040\103\111\106\040\101
\070\062\067\064\063\062\060\067\067\061\043\060\041\006\003\125\004
\013\023\032\150\164\160\072\057\057\167\167\167\056\143\150
\141\155\142\145\162\163\151\147\156\056\157\162\147\061\042\060
\040\006\003\125\004\003\023\031\103\150\141\155\142\145\162\163
\040\157\146\040\103\157\155\155\145\162\143\145\040\122\157\157
\164
end

cka_id UTF8 "0"
cka_issuer multiline_octal
\060\177\006\101\13\006\003\125\004\006\023\002\105\125\061
\047\060\045\006\003\125\004\012\023\036\101\103\040\103\141\155
\145\162\146\151\162\155\141\040\123\101\040\103\111\106\040\101
\070\062\067\064\063\062\060\067\067\061\043\060\041\006\003\125\004
END

# Trust for Certificate "Camerfirma Chambers of Commerce Root"

# For Email Distrust After: Mon Mar 01 00:00:00 2021

CKA_NSS_EMAIL_DISTRUST_AFTER MULTILINE_OCTAL
\062\061\060\063\060\061\060\060\060\060\060\060\132
END
# Issuer: CN=Chambers of Commerce Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF A82743287,C=EU
# Serial Number: 0 (0x0)
# Subject: CN=Chambers of Commerce Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF A82743287,C=EU
# Not Valid Before: Tue Sep 30 16:13:43 2003
# Not Valid After : Wed Sep 30 16:13:44 2037

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Camerfirma Chambers of Commerce Root"

# Certificate "Camerfirma Global Chambersign Root"

# Issuer: CN=Global Chambersign Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF A82743287,C=EU
# Serial Number: 0 (0x0)
# Subject: CN=Global Chambersign Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF A82743287,C=EU
Open Source Used In Edge Intelligence Edge_1.6 178
END

# Trust for Certificate "Camerfirma Global Chambersign Root"
# Issuer: CN=Global Chambersign Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF
# Serial Number: 0 (0x0)
# Subject: CN=Global Chambersign Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF
# Not Valid Before: Tue Sep 30 16:14:18 2003
# Not Valid After : Wed Sep 30 16:14:18 2037

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Camerfirma Global Chambersign Root"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\063\233\153\024\120\044\233\121\145\212\373\153\031\340\057
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\303\346\173\006\145\117\103\355\304\172\145\212\137\153\031
END

CKA_ISSUER MULTILINE_OCTAL
\060\175\061\013\060\011\006\003\125\004\006\023\002\105\125\061
# Certificate "XRamp Global CA Root"

# Issuer: CN=XRamp Global Certification Authority,O=XRamp Security Services Inc,O=www.xrampsecurity.com,C=US
# Subject: CN=XRamp Global Certification Authority,O=XRamp Security Services Inc,O=www.xrampsecurity.com,C=US
# Not Valid Before: Mon Nov 01 17:14:04 2004
# Not Valid After : Mon Jan 01 05:37:19 2035
# Fingerprint (MD5): A1:0B:44:B3:CA:10:D8:00:6E:9D:0F:D8:0F:92:0A:D1

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "XRamp Global CA Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT_MULTILINE_OCTAL
\047\060\045\006\003\125\004\012\023\036\101\103\040\103\141\155
\145\162\146\151\162\155\141\040\123\101\104\103\111\116\040\101
\070\067\064\063\062\070\067\061\043\060\041\006\003\125\004
\013\023\032\150\164\164\160\072\057\057\167\167\167\056\143\150
\141\155\142\145\162\163\151\147\156\056\157\162\147\061\040\060
\036\006\003\125\004\003\023\027\107\154\157\142\141\154\040\103
\150\141\155\142\145\162\163\151\147\156\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Trust for Certificate "XRamp Global CA Root"
# Issuer: CN=XRamp Global Certification Authority,O=XRamp Security Services
Inc,OU=www.xrampsecurity.com,C=US
# Subject: CN=XRamp Global Certification Authority,O=XRamp Security Services
Inc,OU=www.xrampsecurity.com,C=US
# Not Valid Before: Mon Nov 01 17:14:04 2004
# Not Valid After : Mon Jan 01 05:37:19 2035
# Fingerprint (MD5): A1:0B:44:B3:CA:10:D8:00:6E:9D:0F:D8:0F:92:0A:D1
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "XRamp Global CA Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\270\001\206\321\353\234\206\245\101\004\317\060\124\363\114\122
\267\345\130\306
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\241\013\104\263\312\020\330\000\156\235\017\330\017\222\012\321
END
CKA_ISSUER MULTILINE_OCTAL
\060\020\012\020\013\060\001\11\006\003\125\004\006\023\023\023\125\13
\061\036\060\034\060\003\125\004\013\023\025\167\167\056\170
\162\141\155\160\163\145\143\165\162\151\164\171\106\143\157\155
\061\044\060\042\006\033\012\004\003\125\004\012\023\033\130\122\141\155\160
\040\123\145\143\165\162\151\164\171\040\123\145\162\166\151\143
\145\163\040\011\156\143\061\055\060\053\006\003\125\004\003\023
\040\130\122\141\155\160\040\107\154\157\142\141\154\040\033\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\120\224\154\354\030\352\325\234\115\325\227\357\165\217
\240\255
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Go Daddy Class 2 CA"
#
# Issuer: OU=Go Daddy Class 2 Certification Authority,O="The Go Daddy Group, Inc.",C=US
# Serial Number: 0 (0x0)
# Subject: OU=Go Daddy Class 2 Certification Authority,O="The Go Daddy Group, Inc.",C=US
# Not Valid Before: Tue Jun 29 17:06:20 2004
# Not Valid After: Thu Jun 29 17:06:20 2034
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Go Daddy Class 2 CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\143\061\013\060\001\106\003\125\004\006\023\002\125\123\061
\041\060\037\006\003\125\004\012\023\030\124\150\145\040\107\157
\040\014\141\144\144\171\040\107\162\157\156\160\054\040\111\156
\143\056\016\061\060\057\006\003\125\004\013\023\030\050\107\157\040
\104\141\144\144\171\040\103\154\141\163\163\040\062\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\143\061\013\060\001\106\003\125\004\006\023\002\125\123\061
\041\060\037\006\003\125\004\012\023\030\124\150\145\040\107\157
\143\056\016\061\060\057\006\003\125\004\013\023\050\107\157\040
\104\141\144\144\171\040\103\154\141\163\163\040\062\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\000\060\202\002\350\240\003\002\001\002\002\001\000
\060\143\061\013\060\001\106\003\125\004\006\023\002\125\123\061
\041\060\037\006\003\125\004\012\023\030\124\150\145\040\107\157
\143\056\016\061\060\057\006\003\125\004\013\023\050\107\157\040
\104\141\144\144\171\040\103\154\141\163\163\040\062\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
END
\301\330\105\047\157\252\067\130\367\207\046\327\330\055\366\251
\027\267\037\162\066\116\246\027\077\145\230\202\333\052\156\135
\242\376\210\340\013\336\177\345\251\025\341\353\313\072\325\342
\022\242\202\305\533\302\165\257\137\022\075\240\010\005\010\266\134
\245\145\070\004\105\231\036\243\140\140\164\305\101\245\162\142
\033\42\305\037\157\032\022\276\002\212\145\250\256\043\030
\152\374\170\003\251\115\177\200\030\372\253\032\374\241\100\244
\312\031\206\376\262\310\357\136\163\015\356\167\275\232\366\171
\230\072\261\007\147\242\025\015\332\240\130\306\104\173\012\076
\142\050\137\272\101\007\123\130\317\021\176\070\164\305\370\377
\265\151\220\217\204\164\335\227\033\257\002\001\003\243\201\300
\060\020\127\50\066\003\035\012\125\305\016\004\026\004\024\322\230
\260\322\221\324\114\021\161\263\141\131\075\241\376\335\250\152
\324\343\060\020\212\150\006\003\125\250\043\040\201\205\060\201\202
\200\024\323\040\260\322\221\324\114\021\161\263\141\131\075\241
\376\335\250\152\323\243\343\241\147\244\145\060\143\061\013\060\011
\006\060\03\125\04\060\23\002\125\123\061\140\140\164\305\370\377
\004\040\202\023\030\012\145\140\040\107\157\040\104\141\144\141\171
\040\107\162\1\57\165\160\054\040\111\156\143\056\061\061\060\057
\006\060\125\04\03\013\203\050\107\157\040\104\141\144\141\171\040
\103\154\141\163\163\040\062\040\103\145\162\164\151\146\151\143
\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\202
\001\000\060\014\006\003\125\035\023\004\005\060\003\001\010\137
\060\015\006\011\052\206\110\206\067\015\010\010\055\000\000
\202\001\010\000\062\113\363\262\312\076\221\374\022\306\241\007
\214\216\167\240\063\006\024\134\220\036\030\367\010\246\075\012
\031\137\120\207\002\211\156\151\154\220\207\060\377\064\222\114\136
\070\036\351\340\001\243\035\224\050\244\061\366\172\304\124\327
\366\345\060\111\130\003\242\314\161\142\333\224\105\163\265\277\105
\311\144\265\325\202\022\255\043\171\151\125\270\266\115\136\131
\114\132\063\043\355\034\121\025\235\213\101\156\026\311\040\345
\121\123\363\150\332\160\367\176\231\046\040\024\124\045\253\156
\163\205\346\233\044\123\50\121\154\202\016\250\370\302\014\137\202
\036\151\226\357\207\015\304\017\141\123\355\356\203\053\225\370
\216\022\204\162\071\135\030\035\203\135\355\203\135\227\156\010\274
\353\116\046\266\163\053\344\323\366\114\376\046\161\342\141\021
\164\112\377\127\032\207\017\165\110\056\317\121\115\012\274\000
\022\141\122\352\321\100\262\020\114\356\304\254\020\103\246\245
\236\012\325\225\42\232\015\137\210\202\305\062\014\344\053\323
\105\346\015\237\050\234\261\271\052\132\127\255\067\017\257\035
\177\333\275\237

END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Go Daddy Class 2 CA"
# Issuer: OU=Go Daddy Class 2 Certification Authority,O="The Go Daddy Group, Inc.",C=US
# Serial Number: 0 (0x0)
# Subject: OU=Go Daddy Class 2 Certification Authority,O="The Go Daddy Group, Inc.",C=US
# Not Valid Before: Tue Jun 29 17:06:20 2004
# Not Valid After : Thu Jun 29 17:06:20 2034

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Go Daddy Class 2 CA"

END

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\047\226\272\346\077\030\001\342\167\046\033\240\327\167\160002
\217\040\356\344
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\221\336\006\045\253\332\375\062\027\014\273\045\027\052\204\147
END

CKA_ISSUER MULTILINE_OCTAL
\060\143\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\041\060\037\006\003\125\004\012\023\030\124\150\145\040\107\157
\040\104\141\144\144\171\040\107\162\157\165\160\054\040\111\156
\143\056\061\060\057\060\003\125\004\013\023\050\107\157\040
\104\141\144\144\171\040\103\154\141\163\163\040\103\062
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGIATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGIATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Starfield Class 2 CA"
#
# Issuer: OU=Starfield Class 2 Certification Authority,O="Starfield Technologies, Inc.",C=US
# Serial Number: 0 (0x0)
# Subject: OU=Starfield Class 2 Certification Authority,O="Starfield Technologies, Inc.",C=US
# Not Valid Before: Tue Jun 29 17:39:16 2004
# Not Valid After : Thu Jun 29 17:39:16 2034

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE

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<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CKA_MODIFIABLE</td>
<td>CK_BBOOL CK_FALSE</td>
</tr>
<tr>
<td>CKA_LABEL UTF8</td>
<td>&quot;Starfield Class 2 CA&quot;</td>
</tr>
<tr>
<td>CKA_CERTIFICATE_TYPE CK</td>
<td>CKA_CERTIFICATE_TYPE CKC_X_509</td>
</tr>
<tr>
<td>CKA_SUBJECT MULTILINE_OCTAL</td>
<td></td>
</tr>
<tr>
<td>CKA_ID UTF8</td>
<td>&quot;0&quot;</td>
</tr>
<tr>
<td>CKA_ISSUER MULTILINE_OCTAL</td>
<td></td>
</tr>
<tr>
<td>CKA_SERIAL_NUMBER MULTILINE_OCTAL</td>
<td></td>
</tr>
<tr>
<td>CKA_VALUE MULTILINE_OCTAL</td>
<td></td>
</tr>
</tbody>
</table>
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Trust for Certificate "Starfield Class 2 CA"
# Issuer: OU=Starfield Class 2 Certification Authority,O="Starfield Technologies, Inc.",C=US
# Serial Number: 0 (0x0)
# Subject: OU=Starfield Class 2 Certification Authority,O="Starfield Technologies, Inc.",C=US
# Not Valid Before: Tue Jun 29 17:39:16 2004
# Not Valid After : Thu Jun 29 17:39:16 2034
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Class 2 CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\255\176\034\050\260\144\357\217\140\003\100\040\024\303\320\343\067\016\265\212
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\062\112\113\273\310\143\151\233\276\164\232\306\335\035\106\044
END
CKA_ISSUER MULTILINE_OCTAL
\060\150\061\013\060\001\100\060\003\125\004\006\023\002\125\123\061\045\060\043\006\003\125\004\012\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\062\060\060\006\003\125\004\013\023\051\123\164\141\162\146\151\145\154\144\040\103\154\141\163\163\040\062\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\010\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# # Certificate "DigiCert Assured ID Root CA"
#
# Issuer: CN=DigiCert Assured ID Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Serial Number: 0c:e7:e0e5:17:d8:46:fe:8e56:0f:fc:1b:f0:30:39
# Subject: CN=DigiCert Assured ID Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Fri Nov 10 00:00:00 2006
# Not Valid After : Mon Nov 10 00:00:00 2031
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Assured ID Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\014\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\044\060\042\006\003\125\004\003\023\033\104\151\147\151
\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\103\141
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\014\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\044\060\042\006\003\125\004\003\023\033\104\151\147\151
\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\103\141
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\014\347\340\345\027\330\106\376\217\345\140\374\033\360
\060\071
END
CKA_VALUE MULTILINE_OCTAL
\060\020\003\267\060\020\002\237\240\003\002\001\002\002\020\014
\347\340\345\027\330\106\376\217\345\140\374\033\360
\015\060\011\052\110\206\367\150\011\001\005\000\006\010\45
\060\013\060\011\006\003\125\004\006\023\002\125\123\061
\023\006\003\125\004\012\023\014\014\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\044\060\042\006\003\125\004\003\023\033\104\151\147\151
\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\103\141
END
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\060\015\006\011\052\206\110\206\367\015\000\010\001\000\005\000\000\003
\202\000\017\000\006\020\202\000\012\002\020\020\000\010\000\025\016\025
\316\344\103\200\013\342\61\207\363\267\140\371\161\022\245\256\334
\046\224\120\252\364\316\365\040\071\050\130\014\001\370\200\032
\251\025\225\062\141\074\265\261\050\204\212\212\334\237\012\014
\203\027\172\217\220\254\212\347\171\123\134\061\024\052\236\60\017
\230\062\206\161\031\143\136\035\074\250\242\357\152\373\041\362\122
\141\137\237\040\327\037\342\261\133\137\60\030\144\322\022\133\137
\371\11\030\065\052\274\107\315\151\241\066\371\153\177\324\260\070\076
\301\103\330\214\063\133\030\057\030\037\61\050\172\263\247\203\326
\030\156\104\300\014\140\65\226\026\367\131\123\241\136\155\273\361
\242\11\015\053\377\013\162\332\236\140\320\216\220\065\306\170
\125\207\040\241\317\345\155\012\131\011\117\406\123\063\154\402
\351\207\320\062\132\224\272\202\230\202\021\355\071\027\235\231\072
\162\241\134\46\372\244\331\132\50\207\061\165\256\205\175\042\256\077
\001\110\062\063\050\017\131\026\133\322\344\127\027\304\176\034\016
\260\026\222\246\126\263\275\262\227\355\225\247\360\267\305\250
\077\225\026\326\030\377\241\222\365\301\017\307\016\171\002\003\001
\000\000\012\43\143\060\141\060\016\006\003\125\035\017\000\100\137
\000\040\004\003\002\000\102\206\060\017\000\060\125\035\023\000\100\137
\000\049\050\060\003\001\013\377\000\035\006\003\125\035\016\004\026
\000\040\24\105\053\242\257\364\222\313\202\061\055\121\123\247\247
\041\235\363\155\010\170\060\037\006\033\125\035\043\000\040\030\060
\026\200\024\105\035\324\257\364\222\321\202\061\055\121\123\124\124
\247\041\123\53\155\310\017\060\001\050\011\052\206\110\120\063
\015\001\000\010\055\000\003\120\200\010\100\000\242\016\274\337\342
\355\360\343\162\163\172\144\224\277\367\162\146\330\062\344\102
\161\452\165\020\353\362\235\331\136\126\263\237\143\160\240\050
\271\015\227\140\134\022\114\130\344\323\075\203\111\105\130\227
\065\151\032\250\107\352\126\306\171\253\022\330\147\201\024\333
\177\011\074\224\346\270\046\054\040\275\075\263\050\211\367\137
\377\042\342\227\204\037\351\145\357\207\343\337\301\147\111\126
\135\353\262\011\105\323\350\046\355\170\276\157\077\053\363\267\046
\065\155\137\11\010\266\111\133\237\001\005\233\253\075\054\301
\314\266\177\302\361\157\206\036\372\144\150\353\201\055\224\353
\102\267\372\214\036\035\142\361\276\201\147\267\154\275\363\361
\037\153\014\066\007\026\177\067\174\251\133\155\172\361\012\010
\140\203\327\047\000\276\113\316\227\276\303\147\052\150\021\137
\200\034\100\146\314\277\023\015\024\156\363\177\037\143\020\003
\037\215\033\045\155\154\217\245\267\141\001\261\322\243\046\024
\020\161\235\255\342\033\173\121\126\267\053\007\010\316\056
\346\120\262\247\372\012\010\057\242\360\362
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "DigiCert Assured ID Root CA"
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Global Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\141\061\013\060\060\011\010\006\000\003\125\000\004\000\006\002\023\000\012\125\123\061
\025\060\023\000\003\125\004\012\023\023\014\010\151\147\151\103\145
\162\164\040\011\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\003\036\006\000\003\125\004\003\023\027\041\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\141\061\013\060\060\011\010\006\000\003\125\004\000\006\023\000\012\125\123\061
\025\060\023\000\003\125\004\012\023\023\014\010\151\147\151\103\145
\162\164\040\011\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\003\036\006\000\003\125\004\003\023\027\041\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\010\073\340\126\102\106\261\124\165\152\311\131\221\307\112
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\257\060\020\022\227\240\003\002\001\002\002\020\020\010
\073\340\126\220\012\010\066\124\165\152\311\131\221\307\112\060
\015\006\011\052\206\110\206\367\015\001\001\000\000\000\000\141
\061\130\006\011\000\003\125\004\000\006\023\000\012\125\123\016\020\056
\023\030\003\125\004\012\023\023\014\010\151\147\151\103\145
\162\164\040\010\175\145\142\141\154\040\122\157\157\164
\040\103\101
END
CKA_SCHEMA.Multiline_Octal
\002\020\010\073\340\126\220\012\010\066\124\165\152\311\131\221\307\112
END
CKA_ID.UTF8 "0"
CKA_ISSUER.Multiline_Octal
\002\020\010\073\340\126\220\012\010\066\124\165\152\311\131\221\307\112
END
CKA_SERIAL_NUMBER.Multiline_Octal
\002\020\010\073\340\126\220\012\010\066\124\165\152\311\131\221\307\112
END
CKA_VALUE.Multiline_Octal
\060\202\003\257\060\020\022\227\240\003\002\001\002\002\020\020\010
\073\340\126\220\012\010\066\124\165\152\311\131\221\307\112\060
\015\006\011\052\206\110\206\367\015\001\001\000\000\000\000\141
\061\130\006\011\000\003\125\004\000\006\023\000\012\125\123\016\020\056
\023\030\003\125\004\012\023\023\014\010\151\147\151\103\145
\162\164\040\010\175\145\142\141\154\040\122\157\157\164
\040\103\101
END
CKA_SCHEMA.Multiline_Octal
\002\020\010\073\340\126\220\012\010\066\124\165\152\311\131\221\307\112
END
CKA_ID.UTF8 "0"
CKA_ISSUER.Multiline_Octal
\002\020\010\073\340\126\220\012\010\066\124\165\152\311\131\221\307\112
END
CKA_SERIAL_NUMBER.Multiline_Octal
\002\020\010\073\340\126\220\012\010\066\124\165\152\311\131\221\307\112
END
CKA_VALUE.Multiline_Octal
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END

# Trust for Certificate "DigiCert Global Root CA"
# Issuer: CN=DigiCert Global Root CA,OU.www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Global Root CA, OU=www.digicert.com, O=DigiCert Inc, C=US
# Not Valid Before: Fri Nov 10 00:00:00 2006
# Not Valid After: Mon Nov 10 00:00:00 2031
cka_class ck_object_class cko NSS Trust
cka_token ck_BBOOL CK_TRUE
cka_private ck_BBOOL CK_FALSE
cka_modifiable ck_BBOOL CK_FALSE
cka_label UTF8 "DigiCert Global Root CA"
cka_cert_sha1_hash multiline_octal
\250\230\135\072\145\345\345\304\262\327\326\155\100\306\335\057\261\234\124\066
end
ccka_cert_md5_hash multiline_octal
\171\344\251\204\015\175\072\226\327\300\117\342\103\114\211\056
end
ccka_issuer multiline_octal
\060\141\061\130\060\011\100\060\003\125\004\006\023\002\125\123\061\025\060\023\060\003\125\004\012\023\014\010\151\147\151\103\145\162\164\040\111\143\061\013\060\027\006\003\125\004\013\023\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157\155\061\040\123\006\003\125\004\003\023\027\041\151\147\151\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164\040\103\101
end
ccka_serial_number multiline_octal
\002\020\010\073\340\126\220\010\066\221\124\165\152\31\131\121
307112
end
ccka_trust_server_auth ck_trust ckt NSS Trusted Delegator
ccka_trust_email_protection ck_trust ckt NSS Trusted Delegator
ccka_trust_code_signing ck_trust ckt NSS Must Verify Trust
ccka_trust_step_up_approved ck_BBOOL CK_FALSE

# Certificate "DigiCert High Assurance EV Root CA"
# Issuer: CN=DigiCert High Assurance EV Root CA, OU=www.digicert.com, O=DigiCert Inc, C=US
# Subject: CN=DigiCert High Assurance EV Root CA, OU=www.digicert.com, O=DigiCert Inc, C=US
# Not Valid Before: Fri Nov 10 00:00:00 2006
# Not Valid After: Mon Nov 10 00:00:00 2031
cka_class ck_object_class cko Certificate
cka_token ck_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert High Assurance EV Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\154\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\010\151\147\151\031\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\141\145\143\154\152\162\164\056\143\157
\155\061\053\060\051\006\003\125\004\003\023\042\104\151\147\151
\103\145\162\164\040\110\151\147\150\040\010\163\163\165\162\141
\156\143\145\040\015\126\040\122\157\157\164\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\154\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\010\151\147\151\031\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\167\056\144\141\145\143\145\162\164\056\143\157
\155\061\053\060\051\006\003\125\004\003\023\042\104\151\147\151
\103\145\162\164\040\110\151\147\150\040\010\163\163\165\162\141
\156\143\145\040\015\126\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\002\254\134\046\152\013\100\233\217\013\171\362\256\106
\045\167
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\305\060\202\002\255\240\003\002\001\002\002\020\002
\254\134\046\152\013\100\233\217\013\171\362\256\106\045\167\060
\015\006\011\015\022\066\110\026\367\150\001\001\005\005\000\060\154
\061\013\060\011\006\002\125\004\006\023\002\125\123\061\025\060
\023\006\003\125\004\012\023\014\010\151\147\151\031\145\162\164
\040\111\156\143\043\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\167\056\144\141\145\143\145\162\164\056\143\157
\155\061\053\060\051\006\003\125\004\003\023\042\104\151\147\151
\103\145\162\164\040\110\151\147\150\040\010\163\163\165\162\141
\156\143\145\040\015\126\040\122\157\157\164\040\103\101
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\305\060\202\020\002\255\240\003\002\001\002\002\020\002
\254\134\046\152\013\100\233\217\013\171\362\256\106\045\167\060
\015\006\011\015\022\066\110\026\367\150\001\001\005\005\000\060\154
\061\013\060\011\006\002\125\004\006\023\002\125\123\061\025\060
\023\006\003\125\004\012\023\014\010\151\147\151\031\145\162\164
\040\111\156\143\043\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\167\056\144\141\145\143\145\162\164\056\143\157
\155\061\053\060\051\006\003\125\004\003\023\042\104\151\147\151
\103\145\162\164\040\110\151\147\150\040\010\163\163\165\162\141
\156\143\145\040\015\126\040\122\157\157\164\040\103\101
# Trust for Certificate "DigiCert High Assurance EV Root CA"
# Issuer: CN=DigiCert High Assurance EV Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Platinum CA - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\111\061\130\060\011\100\060\003\125\004\006\023\002\103\110\061\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\101\107\061\043\060\041\100\060\003\125\004\003\023
\032\123\167\151\163\163\123\151\147\156\040\120\154\141\164\151
\156\165\155\040\103\101\040\055\040\107\062
END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\111\061\130\060\011\100\060\003\125\004\006\023\002\103\110\061\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\101\107\061\043\060\041\100\060\003\125\004\003\023
\032\123\167\151\163\163\123\151\147\156\040\120\154\141\164\151
\156\165\155\040\103\101\040\055\040\107\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\116\262\000\147\014\003\135\117
END

CKA_VALUE MULTILINE_OCTAL
\060\202\002\012\123\167\151\163\163\123\151\147\156\040\120\154\141\164\151
\156\165\155\040\103\101\040\055\040\107\062
END

Open Source Used In Edge Intelligence Edge_1.6 199
END

$\text{CKA\_NSS\_MOZILLA\_CA\_POLICY}\ CK\_BBOOL\ CK\_TRUE$

$\text{CKA\_NSS\_SERVER\_DISTRUST\_AFTER}\ CK\_BBOOL\ CK\_FALSE$

$\text{CKA\_NSS\_EMAIL\_DISTRUST\_AFTER}\ CK\_BBOOL\ CK\_FALSE$

# Trust for Certificate "SwissSign Platinum CA - G2"
# Issuer: CN=SwissSign Platinum CA - G2,O=SwissSign AG,C=CH
# Serial Number:4e:b2:00:67:0c:03:5d:4f
# Subject: CN=SwissSign Platinum CA - G2,O=SwissSign AG,C=CH
# Not Valid Before: Wed Oct 25 08:36:00 2006
# Not Valid After : Sat Oct 25 08:36:00 2036

$\text{CKA\_CLASS}\ CK\_OBJECT\_CLASS\ CKO\_NSS\_TRUST$

$\text{CKA\_TOKEN}\ CK\_BBOOL\ CK\_TRUE$

$\text{CKA\_PRIVATE}\ CK\_BBOOL\ CK\_FALSE$

$\text{CKA\_MODIFIABLE}\ CK\_BBOOL\ CK\_FALSE$

$\text{CKA\_LABEL}\ UTF8\ "SwissSign Platinum CA - G2"$

$\text{CKA\_CERT\_SHA1\_HASH}\ \text{MULTILINE\_OCTAL}$

$\text{CKA\_CERT\_MD5\_HASH}\ \text{MULTILINE\_OCTAL}$

$\text{CKA\_ISSUER}\ \text{MULTILINE\_OCTAL}$
# Certificate "SwissSign Gold CA - G2"

# Issuer: CN=SwissSign Gold CA - G2,O=SwissSign AG,C=CH
# Serial Number:00:bb:40:1c:43:f5:5e:4f:b0
# Subject: CN=SwissSign Gold CA - G2,O=SwissSign AG,C=CH
# Not Valid After : Sat Oct 25 08:30:35 2036

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Gold CA - G2"

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_SUBJECT MULTILINE_OCTAL
0601050610130609010606031125004006023002103110061
02506002300600311250040123014123167151163163123
1511471560401011070610370600350060031125004003023
026112316715116316312315114715604010711571154144040
103101040055040107062

END

CKA_ID UTF8 "0"

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_SUBJECT MULTILINE_OCTAL
0601050610130609010606031125004006023002103110061
02506002300600311250040123014123167151163163123
1511471560401011070610370600350060031125004003023
026112316715116316312315114715604010711571154144040
103101040055040107062

END

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_SUBJECT MULTILINE_OCTAL
002011000027310003A103365136117260

END

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_SUBJECT MULTILINE_OCTAL
0602020005272060202003242240003002001002002011000
# Trust for Certificate "SwissSign Gold CA - G2"
# Issuer: CN=SwissSign Gold CA - G2,O=SwissSign AG,C=CH
# Serial Number:00:bb:40:1c:43:f5:5e:4f:b0
# Subject: CN=SwissSign Gold CA - G2,O=SwissSign AG,C=CH
# Not Valid After : Sat Oct 25 08:30:35 2036
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Gold CA - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\330\305\070\212\267\060\033\033\156\324\172\346\105\045\072\157
\237\032\047\141
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\044\167\331\250\221\321\073\372\210\055\302\377\370\315\063\223
END
CKA_ISSUER MULTILINE_OCTAL
\060\105\061\103\060\011\106\003\125\004\006\023\002\103\110\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\101\107\061\103\067\060\035\006\003\125\004\003\302
\026\123\167\151\163\163\123\151\147\156\040\107\157\154\144\040
\103\101\040\055\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\273\100\034\103\365\136\117\260
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "SwissSign Silver CA - G2"
#
# # Issuer: CN=SwissSign Silver CA - G2,O=SwissSign AG,C=CH
# Serial Number:4f:1b:d4:2f:54:mm:2f:4b
# Subject: CN=SwissSign Silver CA - G2,O=SwissSign AG,C=CH
# Not Valid After : Sat Oct 25 08:32:46 2036
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Silver CA - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\017\076\013\060\011\011\006\003\125\004\006\023\002\103\110\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\101\107\061\041\060\037\006\003\125\004\003\023
\030\123\167\151\163\163\123\151\147\156\040\123\151\154\166\145
\162\040\103\101\040\055\040\107\062
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\017\076\013\060\011\011\006\003\125\004\006\023\002\103\110\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\101\107\061\041\060\037\006\003\125\004\003\023
\030\123\167\151\163\163\123\151\147\156\040\123\151\154\166\145
\162\040\103\101\040\055\040\107\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\117\033\324\057\060\015\006\011\052\206\110\206\367
\015\001\001\005\005\000\060\107\061\013\060\011\006\003\125\004
\006\023\002\010\110\061\025\060\060\023\006\003\125\004\012\023\014
\123\167\151\163\163\123\151\147\156\040\101\107\061\041\060\037
\006\025\004\003\023\030\123\167\151\163\163\123\151\147\156
\040\123\151\154\166\145\162\040\103\101\040\055\040\107\062\060
\036\027\015\060\066\060\106\062\065\060\070\063\062\064\066\132
\027\015\063\060\066\060\106\062\065\060\070\063\062\064\066\132
\107\061\013\060\011\006\003\125\004\006\023\002\010\110\061\025
\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123\151
\147\156\040\011\107\061\041\060\037\006\003\125\004\003\023
\123\167\151\163\163\123\151\147\156\040\123\151\154\166\145\162
\040\103\101\040\055\040\107\062\060\020\020\020\042\060\015\006
\011
\025\026\010\112\026\067\015\001\001\001\005\000\003\020\020\020\017
\060\020\020\020\020\020\020\020\001\000\030\043\061\120\177\173\223\170\061
\036\070\031\113\030\033\231\110\027\034\030\037\027\067\067\067\067\067\067\067\067\067\067\067\067\116\161\127
\113\127\245\163\035\134\156\230\252\003\127\256\070\067\013\035
\027\075\037\030\036\150\020\030\011\170\256\030\130\035\053\020\037\025
\171\120\236\256\257\150\020\004\104\247\071\371\013\074\004
\213\036\036\036\242\115\047\371\141\113\272\267\345\242\023\266\353
\141\076\320\154\321\346\363\372\136\355\035\264\236\240\065\133
\241\222\331\136\111\022\376\025\012\005\076\346\331\101\342\117
\273\334\225\067\074\221\135\110\065\042\323\103\170\116\047\205
\235\260\025\224\062\332\141\015\071\115\140\102\256\222\107350
\203\132\120\130\035\121\023\171\135\241\133\035\035\231\112\037\066
# Trust for Certificate "SwissSign Silver CA - G2"
# Issuer: CN=SwissSign Silver CA - G2,O=SwissSign AG,C=CH
# Serial Number:4f:1b:d4:2f:54:bb:2f:4b
# Subject: CN=SwissSign Silver CA - G2,O=SwissSign AG,C=CH
# Not Valid After : Sat Oct 25 08:32:46 2036

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Silver CA - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\233\345\237\126\356\041\313\103\132\276\045\223\337\247\360
\100\321\035\313
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\340\006\241\311\175\317\311\374\015\300\126\165\226\330\142\023
END

CKA_ISSUER MULTILINE_OCTAL
\060\107\061\03\060\01\006\003\125\004\006\023\002\103\110\061
\025\060\023\006\003\125\004\012\023\0114\123\167\151\163\163\123
\151\147\156\040\101\107\061\041\060\037\060\003\125\004\003\023
END
# Certificate "SecureTrust CA"

# Issuer: CN=SecureTrust CA,O=SecureTrust Corporation,C=US
# Serial Number: 0c:f0:8e:5c:08:16:a5:ad:42:7f:f0:eb:27:18:59:d0
# Subject: CN=SecureTrust CA,O=SecureTrust Corporation,C=US
# Not Valid Before: Tue Nov 07 19:31:18 2006
# Not Valid After: Mon Dec 31 19:40:55 2029
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SecureTrust CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT_MULTILINE_OCTAL
\030\123\167\151\163\163\123\151\147\156\040\123\151\154\166\145\162\040\103\101\040\055\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\117\033\324\057\124\273\057\113
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Trust for Certificate "SecureTrust CA"
# Issuer: CN=SecureTrust CA,O=SecureTrust Corporation,C=US
# Serial Number:0:c:f0:8e:5c:08:16:a5:ad:42:7f:f0:eb:27:18:59:d0
# Subject: CN=SecureTrust CA,O=SecureTrust Corporation,C=US
# Not Valid Before: Tue Nov 07 19:31:18 2006
# Not Valid After : Mon Dec 31 19:40:55 2029

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SecureTrust CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\207\202\306\303\004\065\073\317\322\226\222\322\131\076\175\104
\331\064\377\021
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\334\062\303\247\155\045\127\307\150\011\123\352\055\251\242\321
END

CKA_ISSUER_MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\040\060\036\006\003\125\004\012\023\027\123\145\143\165\162\145
\124\162\165\163\164\040\103\157\162\160\157\162\141\164\151\157
\156\061\027\060\025\060\003\125\004\003\023\016\123\145\143\165
\162\145\124\162\165\163\164\040\103\101
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\306\030\004\065\073\317\322\226\222\322\131\076\175\104
\331\064\377\021
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Secure Global CA"
#
# Issuer: CN=Secure Global CA,O=SecureTrust Corporation,C=US
# Subject: CN=Secure Global CA,O=SecureTrust Corporation,C=US
# Not Valid Before: Tue Nov 07 19:42:28 2006
# Not Valid After : Mon Dec 31 19:52:06 2029
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Secure Global CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\112\061\013\060\001\006\003\125\004\006\023\002\125\123\061
\040\060\036\000\003\125\004\012\023\027\123\145\143\165\162\145
\124\162\165\163\164\040\103\157\162\160\157\162\141\164\151\157
\156\061\031\060\027\006\003\125\004\003\023\020\123\145\143\165
\162\145\040\107\154\157\142\141\154\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\112\061\013\060\001\006\003\125\004\006\023\002\125\123\061
\040\060\036\000\003\125\004\012\023\027\123\145\143\165\162\145
\124\162\165\163\164\040\103\157\162\160\157\162\141\164\151\157
\156\061\031\060\027\006\003\125\004\003\023\020\123\145\143\165
\162\145\040\107\154\157\142\141\154\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\000\07\126\042\24\42\350\324\212\211\115\364\023\310\360\370\352\245
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\274\060\202\002\244\240\003\002\001\002\002\020\007
\126\042\244\350\324\212\211\115\364\023\310\360\370\352\245\060
\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060\012
\061\013\060\001\010\060\003\125\004\006\023\002\125\123\061\040\060
\036\000\003\125\004\012\023\027\123\145\143\165\162\145\124\162
\165\163\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\031\060\027\006\003\125\004\003\023\020\123\145\143\165\162\145
\040\017\154\157\142\141\154\040\103\101\060\036\027\015\060\066
# Trust for Certificate "Secure Global CA"
# Issuer: CN=Secure Global CA,O=SecureTrust Corporation,C=US
# Subject: CN=Secure Global CA,O=SecureTrust Corporation,C=US
# Not Valid Before: Tue Nov 07 19:42:28 2006
# Not Valid After : Mon Dec 31 19:52:06 2029
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Secure Global CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\072\104\163\132\345\201\220\037\044\206\141\106\036\073\234\304
\137\365\072\END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\317\364\047\015\324\355\334\145\026\111\155\075\332\277\156\336
END
CKA_ISSUER MULTILINE_OCTAL
\060\112\061\013\060\001\100\003\125\004\006\023\002\125\123\061
\040\060\036\060\003\125\004\012\023\027\123\145\143\165\162\145
\124\161\165\163\164\040\103\157\162\160\157\162\141\164\151\157
\156\061\031\060\027\006\003\125\040\030\023\020\123\145\143\165
\162\145\040\107\154\157\142\141\154\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\007\126\042\244\350\324\212\211\115\364\023\310\360\370
\352\245
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "COMODO Certification Authority"
#
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "COMODO Certification Authority"
# Issuer: CN=COMODO Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Serial Number:4e:81:2d:8a:82:65:e0:0b:02:ee:3e:35:02:46:e5:3d
# Subject: CN=COMODO Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Fri Dec 01 00:00:00 2006
# Not Valid After: Mon Dec 31 23:59:59 2029
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\146\061\277\236\367\117\236\266\311\325\246\014\272\152\276\321\367\275\357\173
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\134\110\334\367\102\162\354\126\224\155\034\314\161\065\200\165
END
CKA_ISSUER MULTILINE_OCTAL
\060\0201\201\061\013\060\011\006\003\125\004\006\023\002\107\102\061\033\060\031\060\003\125\004\010\023\022\107\162\145\141\164\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061\032\060\030\000\003\125\004\012\023\021\103\117\115\17\104\117\040\103\101\040\114\151\155\151\164\145\144\061\047\060\045\006
# Certificate "Network Solutions Certificate Authority"

# Issuer: CN=Network Solutions Certificate Authority,O=Network Solutions L.L.C.,C=US
# Subject: CN=Network Solutions Certificate Authority,O=Network Solutions L.L.C.,C=US
# Not Valid Before: Fri Dec 01 00:00:00 2006
# Not Valid After : Mon Dec 31 23:59:59 2029

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\116\201\055\212\023\002\106\345\075
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate

# Certif...
END

cka_nss.mozilla_ca_policy CK_BBOOL CK_TRUE
cka_nss_server_distrust_after CK_BBOOL CK_FALSE
cka_nss_email_distrust_after CK_BBOOL CK_FALSE

# Trust for Certificate "Network Solutions Certificate Authority"
# Issuer: CN=Network Solutions Certificate Authority,O=Network Solutions L.L.C.,C=US
# Subject: CN=Network Solutions Certificate Authority,O=Network Solutions L.L.C.,C=US
# Not Valid Before: Fri Dec 01 00:00:00 2006
# Not Valid After : Mon Dec 31 23:59:59 2029
cka_class CK_OBJECT_CLASS CKO_NSS_TRUST
cka_token CK_BBOOL CK_TRUE
cka_private CK_BBOOL CK_FALSE
cka_modifiable CK_BBOOL CK_FALSE
cka_label UTF8 "Network Solutions Certificate Authority"
cka_cert_sha1_hash MULTILINE_OCTAL
\164\162\1621\153\123\157\154\165\162\151\157\156\163\103\145
\162\164\151\146\151\143\141\164\145\105\165\164\150\157\162\151
\164\171\153\141\162\154\123\157\156\135\140\105\165\206\110\206\367\015
\001\001\005\005\000\003\202\000\01\000\027\256\113\347\267\127
\353\177\252\055\267\163\107\205\152\301\134\245\035\354\347\074
\353\164\161\111\162\165\164\172\133\122\151\045\066\340\172\227\056
\070\030\012\174\203\230\004\203\237\271\166\172\156\120\340\272
\210\054\374\105\134\030\260\231\225\121\101\163\354\035\270\210\377
\207\120\342\202\303\343\340\062\202\277\240\013\107\310\103\006\061
\357\231\147\062\200\117\027\041\171\014\151\134\336\136\064\256
\002\265\046\352\120\203\377\177\030\145\054\311\362\143\341\251\1007
\376\174\161\037\153\063\044\152\036\005\367\005\150\300\152\022
\313\056\136\141\133\256\050\323\176\302\264\146\221\1046\137\074
\056\044\137\131\300\173\353\505\354\257\021\226\363\334\173\157
\300\247\210\362\123\167\263\140\136\256\256\050\332\065\054\157
\064\105\323\046\341\136\354\133\117\047\153\026\174\275\104\004
\030\202\263\211\171\027\020\161\075\172\242\026\116\365\001\135
\244\154\145\150\241\111\166\134\103\311\330\274\066\147\154\024
\224\265\324\314\271\275\152\065\126\041\136\330\033\353\373\313
\244\140\114\260\125\240\240\173\127\262

END
# Certificate "COMODO ECC Certification Authority"

# Issuer: CN=COMODO ECC Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Subject: CN=COMODO ECC Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Thu Mar 06 00:00:00 2008
# Not Valid After: Mon Jan 18 23:59:59 2038
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO ECC Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\205\061\013\060\011\006\003\125\004\006\023\002\107\102
\061\033\060\031\006\003\125\004\010\023\022\107\162\145\111\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\010\117\115\117\104\117
\040\010\101\040\014\151\155\151\164\145\144\006\105\036\005\100
\003\125\004\003\023\024\103\117\115\117\104\117\040\105\103\103
\040\010\135\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\201\205\061\013\060\011\006\003\125\004\006\023\002\107\102
\061\033\060\031\006\003\125\004\010\023\022\107\162\145\111\164

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# Trust for Certificate "COMODO ECC Certification Authority"
# Issuer: CN=COMODO ECC Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Subject: CN=COMODO ECC Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Thu Mar 06 00:00:00 2008
# Not Valid After: Mon Jan 18 23:59:59 2038

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO ECC Certification Authority"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

CKA_CERT_MD5_HASH MULTILINE_OCTAL
# Certificate "OISTE WISeKey Global Root GA CA"
#
# Issuer: CN=OISTE WISeKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c)
2005,O=WISeKey,C=CH
# Subject: CN=OISTE WISeKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c)
2005,O=WISeKey,C=CH
# Not Valid Before: Sun Dec 11 16:03:44 2005
# Not Valid After : Fri Dec 11 16:09:51 2037

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_TRUE

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OISTE WISeKey Global Root GA CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\212\061\013\060\011\006\003\125\004\006\023\002\103\110
\061\020\060\016\006\003\125\004\012\023\007\127\111\123\145\113
\145\171\061\033\060\013\006\003\125\004\013\023\022\103\157\160
\171\162\151\147\150\164\040\050\143\051\040\062\060\060\065\061
\042\060\040\006\003\125\004\013\023\031\117\111\123\124\105\040
\106\157\165\156\144\141\164\151\157\156\040\105\156\144\157\162
\163\145\144\061\050\060\046\006\003\125\004\003\023\037\117\111
\123\124\105\040\127\111\123\145\113\145\171\040\107\154\157\142
\141\154\040\122\157\157\164\040\107\101\040\103\101

END

CKA_ID UTF8 "0"

CKA_ISSUER_MULTILINE_OCTAL
\060\201\212\061\013\060\011\006\003\125\004\006\023\002\103\110
\061\020\060\016\006\003\125\004\012\023\007\127\111\123\145\113
\145\171\061\033\060\013\006\003\125\004\013\023\022\103\157\160
\171\162\151\147\150\164\040\050\143\051\040\062\060\060\065\061
\042\060\040\006\003\125\004\013\023\031\117\111\123\124\105\040
\106\157\165\156\144\141\164\151\157\156\040\105\156\144\157\162
\163\145\144\061\050\060\046\006\003\125\004\003\023\037\117\111
\123\124\105\040\127\111\123\145\113\145\171\040\107\154\157\142
\141\154\040\122\157\157\164\040\107\101\040\103\101

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\101\075\162\307\364\153\037\201\103\175\361\322\050\124
# Certificate "Certigna"

# Issuer: CN=Certigna,O=Dhimyotis,C=FR
# Serial Number:00:fe:dc:e3:01:0f:c9:48:ff
# Subject: CN=Certigna,O=Dhimyotis,C=FR
# Not Valid Before: Fri Jun 29 15:13:05 2007
# Not Valid After : Tue Jun 29 15:13:05 2027

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certigna"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END
\155\136\245\122\143\316\022\370\357\052\332\157\353\067\376\023
\002\203\307\313\073\076\042\153\332\141\056\177\324\162\075\335\060
\341\036\114\003\121\401\173\327\234\323\120\030\060\173\230\131\334
\175\306\271\014\051\114\241\063\124\243\313\147\072\145\204\323\226
\342\355\166\015\60\217\265\053\336\371\043\326\111\156\074\024
\265\036\203\065\306\120\320\03\121\171\152\160\104\002\142\313\256
\035\150\101\124\275\127\350\123\252\007\322\006\366\325\024\006
\013\221\003\165\054\145\162\265\141\225\232\015\213\271\015\347
\365\337\124\153\336\346\330\326\011\010\227\143\345\301\056\260
\267\104\046\130\046\130\257\125\060\236\073\132\506\052\031\004
\364\134\036\037\317\054\267\377\323\035\075\207\100\021\325\021\043
\273\110\300\041\251\244\050\055\375\025\370\260\116\053\364\060
\133\041\374\021\22\064\276\101\135\713\173\235\227\165\377\227\225
\300\226\130\057\352\273\106\327\273\344\033\105
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Certigna"
# Issuer: CN=Certigna,O=Dhimyotis,C=FR
# Serial Number:00:fe:dc:e3:01:0f:c9:48:ff
# Subject: CN=Certigna,O=Dhimyotis,C=FR
# Not Valid Before: Fri Jun 29 15:13:05 2007
# Not Valid After : Tue Jun 29 15:13:05 2027

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certigna"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\261\056\023\143\105\206\244\157\032\262\140\150\067\130\055\304
\254\375\224\227
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\253\127\246\133\175\102\202\031\265\330\130\046\050\136\375\377
END

CKA_ISSUER_MULTILINE_OCTAL
\060\046\061\013\060\001\006\003\125\004\006\023\002\166\122\061
\022\060\020\060\000\03\125\004\012\014\011\104\150\151\155\171\157
\164\151\163\061\021\060\017\006\003\125\004\003\014\010\103\145
\162\154\151\147\156\141
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\376\334\343\001\017\311\110\377
END
# Certificate "ePKI Root Certification Authority"

# Issuer: OU=ePKI Root Certification Authority,O="Chunghwa Telecom Co., Ltd.",C=TW
# Serial Number:15:c8:bd:65:47:5c:af:b8:97:00:5e:e4:06:d2:bc:9d
# Subject: OU=ePKI Root Certification Authority,O="Chunghwa Telecom Co., Ltd.",C=TW
# Not Valid Before: Mon Dec 20 02:31:27 2004
# Not Valid After : Wed Dec 20 02:31:27 2034

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ePKI Root Certification Authority"

END

---

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ePKI Root Certification Authority"

END

---

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL

END

---

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

---

CKA_VALUE MULTILINE_OCTAL

END

---

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\071\056\167\077\102\112\242\060\014\000\060\03\125\035\023\004\005
\060\003\001\001\037\77\060\071\006\004\147\052\007\000\004\061\060
\057\060\055\002\001\000\060\011\006\005\053\016\003\002\032\005
\000\006\007\006\005\014\052\003\000\000\004\024\010\260\032\030\07
\012\126\174\356\133\170\014\225\371\030\123\301\246\034\330\020
\060\015\005\060\011\015\226\061\010\206\367\015\001\001\005\000\000
\020\002\001\000\011\263\203\023\123\131\010\076\225\111\271\361\201
\027\237\166\040\043\265\047\140\164\324\152\231\064\136\154\000
\123\323\137\362\246\261\044\007\104\152\052\306\245\216\170\022
\135\010\73\133\130\033\023\052\136\171\123\32\37\012\052\147\246\045
\077\006\151\112\261\163\303\212\146\110\373\051\201\127\164\006\031
\123\452\050\350\070\170\046\053\361\232\256\077\145\223\370\006
\135\216\215\215\100\040\207\031\352\357\047\300\075\264\071\017
\045\173\150\120\164\125\234\014\131\175\132\075\011\224\045\122
\010\340\107\054\025\061\031\325\277\007\125\306\273\022\265\227
\164\137\203\205\272\161\130\033\154\201\021\166\012\012\260\277
\020\222\237\367\352\075\372\372\354\055\251\050\224\073\263\355\322
\121\105\56\300\275\010\025\214\167\122\064\226\326\233\254\323
\035\216\141\107\065\173\133\232\256\071\151\013\142\140\100\040\006
\217\257\373\066\356\055\010\112\035\270\277\233\134\370\352\245
\033\240\163\240\330\370\151\364\006\304\041\137\171\052\204\077\001
\331\130\122\234\343\025\062\51\143\337\253\030\333\127
\346\351\112\352\212\012\171\141\223\036\342\055\031\342\060\224
\065\222\135\016\266\007\257\031\200\217\107\220\121\111\035\61\115
\335\052\342\093\220\122\012\027\223\374\032\260\120\002\034\50\001
\243\143\067\041\114\104\034\033\213\121\012\016\163\234\006\017
\124\045\052\247\050\136\014\071\207\126\055\067\275\250\034\224\341
\014\113\054\234\033\022\205\064\141\313\017\270\233\112\013\122
\376\064\072\175\270\351\051\334\166\251\130\060\370\024\161\200
\306\036\066\110\164\042\101\134\207\020\235\030\016\121\131\101\111
\014\347\176\130\033\250\270\125\023\355\124\154\033\107\355\263
\032\235\142\256\021\052\352\224\236\335\13\020\033\255\353\342
\115\343\030\123\305\374\350\362\260\376\222\036\026\012\032\374
\331\133\340\047\266\031\127\035\364\144\220\177\364\344\304
\133\327\067\256\102\016\335\244\032\157\174\210\124\030\026\156
\034\112\150\050\370\072\277\152\244\047\211\073\170\247\116\143
\020\030\040\141\107\215\362\202\111\320\133\375\261\315\017\203
\204\324\076\040\205\367\112\075\053\234\375\052\012\011\115\352
\203\137\021\234
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "ePKI Root Certification Authority"
# Issuer: OU=ePKI Root Certification Authority, O="Chunghwa Telecom Co., Ltd.", C=TW
# Serial Number: 15: c8: bd: 65: 47: 5c: af: b8: 97: 00: 5e: 04: 06: d2: bc: 9d
# Subject: OU=ePKI Root Certification Authority, O="Chunghwa Telecom Co., Ltd.", C=TW
# Certificate "certSIGN ROOT CA"

# Issuer: OU=certSIGN ROOT CA,O=certSIGN,C=RO
# Serial Number:20:06:05:16:70:02
# Subject: OU=certSIGN ROOT CA,O=certSIGN,C=RO
# Not Valid Before: Tue Jul 04 17:20:04 2006
# Not Valid After : Fri Jul 04 17:20:04 2031

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "certSIGN ROOT CA"
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "certSIGN ROOT CA"
# Issuer: OU=certSIGN ROOT CA,O=certSIGN,C=RO
# Serial Number: 20:06:05:16:70:02
# Subject: OU=certSIGN ROOT CA,O=certSIGN,C=RO
# Not Valid Before: Tue Jul 04 17:20:04 2006
# Not Valid After: Fri Jul 04 17:20:04 2031
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "certSIGN ROOT CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\372\267\356\066\227\046\142\373\055\260\052\366\277\003\375\350
\174\113\057\111
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\030\230\300\326\351\072\374\371\260\020\142\040\276\125\151\225\103\000\071\115
\366\356\260\132\116\111\104\124\130\137\102\203
END
CKA_ISSUER MULTILINE_OCTAL
# Certificate "NetLock Arany (Class Gold) Ftnanstvny"

# Issuer: CN=NetLock Arany (Class Gold) F..tan..s..tv..ny.OU=Tan..s..tv..nykiad..k (Certification Services),O=NetLock Kft.,L=Budapest,C=HU
# Serial Number:49:41:2c:e4:00:10
# Subject: CN=NetLock Arany (Class Gold) F..tan..s..tv..ny.OU=Tan..s..tv..nykiad..k (Certification Services),O=NetLock Kft.,L=Budapest,C=HU
# Not Valid Before: Thu Dec 11 15:08:21 2008
# Not Valid After : Wed Dec 06 15:08:21 2028

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKABJECT CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "NetLock Arany (Class Gold) Ftnanstvny"

CKA_CLASSIFICATIONS TYPE CK_CERTIFICATE TYPE CKI_X_509

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Trust for Certificate "NetLock Arany (Class Gold) Ftanstvny"

# Issuer: CN=NetLock Arany (Class Gold) F..tan..s..tv..ny,OU=Tan..s..tv..nykiad..k (Certification Services),O=NetLock Kft.,L=Budapest,C=HU

# Serial Number:49:41:2c:e4:00:10

# Subject: CN=NetLock Arany (Class Gold) F..tan..s..tv..ny,OU=Tan..s..tv..nykiad..k (Certification Services),O=NetLock Kft.,L=Budapest,C=HU

# Not Valid Before: Thu Dec 11 15:08:21 2008

# Not Valid After : Wed Dec 06 15:08:21 2028


CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "NetLock Arany (Class Gold) Ftanstvny"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\006\107\311\077\025\241\004\240\151\124\153\251\003\320\006
\267\227\011\221
END
CKA_CERT_MDS_HASH.MULTILINE_OCTAL
\305\241\267\377\163\335\326\327\064\062\030\337\374\074\255\210
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\247\061\013\060\011\006\003\125\004\006\023\002\110\125
\061\021\060\017\006\003\125\004\007\014\010\102\165\144\141\160
\145\163\164\061\252\060\023\006\003\125\004\012\014\014\116\145
\164\114\157\143\153\040\111\146\164\056\061\067\060\065\000\003
\125\004\003\014\056\12\14\15\15\13\22\16\13\16\13\16\13\16\13
\145\163\001\001\065\060\003\125\004\003\014\054\116\145
\164\14\157\143\153\040\101\16\14\15\16\17\040\00\00\15\14\14
\163\040\107\15\14\14\05\10\06\30\22\16\14\14\15\16\13
\272\16\13\16\16\16\16\16\16\16\16\16\16\16\16\16\16
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\006\111\101\105\034\000\020
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Hongkong Post Root CA 1"
#
# Issuer: CN=Hongkong Post Root CA 1,O=Hongkong Post,C=HK
# Serial Number: 1000 (0x3e8)
# Subject: CN=Hongkong Post Root CA 1,O=Hongkong Post,C=HK
# Not Valid Before: Thu May 15 05:13:14 2003
# Not Valid After: Mon May 15 04:52:29 2023
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hongkong Post Root CA 1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
# Certificate "SecureSign RootCA11"

# Issuer: CN=SecureSign RootCA11, O="Japan Certification Services, Inc.", C=JP
# Serial Number: 1 (0x1)
# Not Valid Before: Wed Apr 08 04:56:47 2009
# Not Valid After : Sun Apr 08 04:56:47 2029

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SecureSign RootCA11"

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\003\350
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
Open Source Used In Edge Intelligence

Edge_1.6

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001

END

CKA_VALUE MULTILINE_OCTAL
\060\202\003\001\015\006\060\202\002\125\240\000\003\002\000\001\002\000\002\000\001\000
\060\001\015\006\001\011\005\220\006\110\063\015\001\001\005\005\000\003\000
\130\006\011\003\006\003\012\003\024\112\141\160\141\156\040\103
\145\162\164\151\114\161\146\151\157\151\156\040\123\145\162
\166\151\143\145\163\054\040\111\156\143\056\061\034\060\032\006
\003\125\004\003\023\023\123\145\162\166\151\156\040\123\145\162
\004\011\157\157\164\103\101\061\061\060\020\001\042\060\015\005\000\011\006
\003\125\004\006\023\002\011\212\006\010\053\060\051\003\125\004
\012\023\042\112\141\160\141\156\040\103\145\141\146\151\146\151
\143\141\146\151\157\156\040\123\145\162\166\151\143\145\163\054
\040\111\156\143\035\060\013\034\060\032\006\125\004\003\023\023
\123\145\143\165\162\145\123\151\147\156\040\122\157\157\164\103
\101\061\061\060\020\001\042\060\015\005\000\011\006
\150\150\101\060\000\000\000\000\000\000\000\000\000\000\000\000
\102\020\001\000\000\037\167\252\245\034\220\005\073\313\114\233\063
\103\132\041\035\105\034\007\024\120\026\321\337\127\322\041\023\244\027
\375\337\254\326\030\073\247\344\333\174\367\354\337\270\000\332\224
\130\375\135\162\174\012\077\137\011\147\164\025\226\343\002\074
\207\033\256\131\000\126\030\363\146\036\020\051\035\064\002\024\036\072
\265\142\262\257\372\234\277\244\346\324\200\060\230\363\151\266
\323\127\251\132\343\000\066\362\260\037\421\231\024\054\210\025\063\225
\361\133\320\003\033\362\356\142\321\206\143\077\277\335\223\052\023
\250\166\271\023\037\267\316\116\101\020\052\171\042\347\056\032\362
\225\111\262\005\026\351\041\161\167\241\040\027\255\132\116\012\175
\120\255\365\005\015\105\117\106\101\137\050\076\121\337\004\330
\055\327\145\035\112\033\337\217\073\260\061\232\065\156\310\213
\006\032\000\221\363\222\040\101\145\114\261\064\006\000\172\211\1342
\360\037\000\031\131\137\325\326\350\247\062\263\364\230\100\020\065\030
\315\047\022\213\014\173\316\267\021\074\142\140\007\043\076\053
\100\011\252\240\000\111\155\266\263\157\167\157\065\010\123\373\002
\020\73\050\076\211\000\020\000\010\000\124\013\021\060\010\006\035\006
\003\125\035\160\040\026\004\002\027 \133\370\115\117\262\245\062\324
\072\233\361\143\232\240\276\011\366\127\267\336\006\016\060\003
\125\035\170\010\001\037\700\004\004\003\002\001\000\060\010\006\003
\125\035\023\010\001\037\700\004\005\060\003\000\010\137\700\060\150\006
\011\052\206\110\206\367\150\001\001\005\005\000\003\020\001\001
\000\240\241\007\002\061\146\056\247\126\037\041\234\006\037\202\053\055
\271\042\305\070\046\330\116\117\354\243\177\171\136\106\041\241
\207\167\127\070\010\232\262\244\305\257\017\062\230\013\174\146
\051\126\233\117\045\122\111\103\323\114\056\053\156\172\160\257
\026\016\343\002\154\373\102\034\060\032\235\105\330\125\310\350\073
# Trust for Certificate "SecureSign RootCA11"
# Issuer: CN=SecureSign RootCA11,O="Japan Certification Services, Inc.",C=JP
# Serial Number: 1 (0x1)
# Subject: CN=SecureSign RootCA11,O="Japan Certification Services, Inc.",C=JP
# Not Valid Before: Wed Apr 08 04:56:47 2009
# Not Valid After : Sun Apr 08 04:56:47 2029

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SecureSign RootCA11"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\073\304\237\110\370\363\163\240\304\133\064\165\262\166\137\152\046
\006\003\125\004\012\141\160\141\156\040
\103\145\162\164\151\146\151\143\141\164\151\157\156\040\123\145
\162\166\151\143\145\163\054\040\111\156\143\056\061\034\060\032
\006\003\125\004\003\023\023\123\145\143\165\162\145\123\151\147
\156\040\122\157\157\164\103\101\061\061

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\267\122\164\342\222\264\200\223\362\165\344\314\327\362\352\046

END

CKA_ISSUER_MULTILINE_OCTAL
\060\130\006\010\013\006\000\011\006\000\03\125\004\006\023\002\112\120\061
\053\060\051\006\000\03\125\004\012\230\042\112\141\160\141\156\040
\103\145\162\164\151\146\151\143\141\164\151\157\156\040\123\145
\162\166\151\143\145\163\054\040\111\156\143\056\061\034\060\032
\006\003\125\004\003\023\023\123\145\143\165\162\145\123\151\147
\156\040\122\157\157\164\103\101\061\061

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001

END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Microsec e-Szigno Root CA 2009"
#
# Issuer: E=info@e-szigno.hu,CN=Microsec e-Szigno Root CA 2009,O=Microsec Ltd.,L=Budapest,C=HU
# Serial Number:00:c2:7e:43:04:4e:47:3f:19
# Subject: E=info@e-szigno.hu,CN=Microsec e-Szigno Root CA 2009,O=Microsec Ltd.,L=Budapest,C=HU
# Not Valid Before: Tue Jun 16 11:30:18 2009
# Not Valid After: Sun Dec 30 11:30:18 2029
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_ID UTF8 "0"
CKA_ISSUER_MULTILINE_OCTAL
\060\021\020\061\013\060\001\11\006\003\125\004\006\023\002\110\125
\061\021\060\017\006\003\125\004\007\014\010\102\165\144\141\160
\145\163\164\061\026\060\024\006\003\125\004\012\014\151\155\151
\143\162\157\163\145\143\040\114\164\144\056\060\047\060\045\006
\003\125\004\031\014\036\115\151\143\162\157\163\145\143\040\145
\055\123\172\151\147\156\157\040\022\157\157\164\040\103\010\140
\062\060\060\071\061\037\060\035\006\011\052\206\110\206\367\015
\001\011\001\026\020\151\156\146\157\100\045\055\163\172\151\147
\156\157\056\150\165
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\037\060\035\006\011\052\206\110\206\367\015
\001\011\001\026\020\151\156\146\157\100\045\055\163\172\151\147
\156\157\056\150\165
END
CKA_VALUE MULTILINE_OCTAL
\002\011\000\032\176\103\004\116\107\077\031
END
# Trust for Certificate "Microsec e-Szigno Root CA 2009"
# Issuer: E=info@e-szigno.hu,CN=Microsec e-Szigno Root CA 2009,O=Microsec Ltd.,L=Budapest,C=HU
# Serial Number:00:c2:7e:43:04:4e:47:3f:19
# Subject: E=info@e-szigno.hu,CN=Microsec e-Szigno Root CA 2009,O=Microsec Ltd.,L=Budapest,C=HU
# Not Valid Before: Tue Jun 16 11:30:18 2009
# Not Valid After : Sun Dec 30 11:30:18 2029
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsec e-Szigno Root CA 2009"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\211\337\164\376\134\364\017\112\200\371\134\067\175\124\332\221
\341\001\061\216
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\370\111\364\003\274\104\055\203\276\110\151\175\051\144\374\261
END
CKA_ISSUER_MUTLINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\110\125
\061\021\060\017\006\003\125\004\007\014\010\102\165\144\141\160
\145\163\164\061\026\060\024\006\003\125\004\012\014\015\151\151
\143\162\157\163\145\143\040\114\163\144\056\061\047\060\045\006
\003\125\004\003\014\036\115\151\143\162\157\163\145\143\040\145
# Trust for Certificate "GlobalSign Root CA - R3"

# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R3
# Serial Number:04:00:00:00:00:01:21:58:53:08:a2
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R3
# Not Valid Before: Wed Mar 18 10:00:00 2009
# Not Valid After : Sun Mar 18 10:00:00 2029


CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root CA - R3"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\326\233\126\021\110\360\034\167\305\105\170\301\012\023\107\154\157\142\141\154\123\151\147\156\125\004\033\023\012\107\154\157\142\141\154\123\151\147\156
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\305\337\270\111\312\005\023\125\356\055\272\032\033\076\260\050
END

CKA_ISSUER MULTILINE_OCTAL
\060\114\061\040\060\036\006\003\125\004\013\023\027\107\154\157
\142\141\154\123\151\147\156\040\122\157\157\164\040\103\101\040
\055\040\122\063\061\023\060\021\060\003\125\004\012\023\012\017
\154\157\142\141\154\123\151\147\156\125\004\033\023\012\107\154\157\142\141\154\123\151\147\156
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\004\000\000\000\000\000\000\001\041\130\123\010\242
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "Autoridad de Certificacion Firmaprofesional CIF A62634068"

# Issuer: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
# Serial Number:53:ec:3b:ee:fb:b2:48:5f
# Subject: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
# Not Valid Before: Wed May 20 08:38:15 2009
# Not Valid After: Tue Dec 31 08:38:15 2030

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Autoridad de Certificacion Firmaprofesional CIF A62634068"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\105\123\061\102\060\100\006\003\125\004\003\140\071\101\165\164\157\162\151\144\141\144\040\144\145\040\103\145\162\164\151\146\151\143\141\143\151\157\156\040\106\151\162\155\141\160\162\157\146\145\163\151\157\156\141\154\040\103\111\106\040\101\066\062\066\063\064\060\066\070\END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\105\123\061\102\060\100\006\003\125\004\003\140\071\101\165\164\157\162\151\144\141\144\040\144\145\040\103\145\162\164\151\146\151\143\141\143\151\157\156\040\106\151\162\155\141\160\162\157\146\145\163\151\157\156\141\154\040\103\111\106\040\101\066\062\066\063\064\060\066\070\END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\123\354\073\356\073\262\110\137\END

CKA_VALUE MULTILINE_OCTAL
\060\020\006\024\060\020\003\374\240\003\002\001\002\002\010\123\354\073\356\073\262\110\137\END
Open Source Used In Edge Intelligence Edge_1.6 252
# Trust for Certificate "Autoridad de Certificacion Firmaprosfesional CIF A62634068"
# Issuer: CN=Autoridad de Certificacion Firmaprosfesional CIF A62634068,C=ES
# Serial Number:53:ec:3b:ee:fb:b2:48:5f
# Subject: CN=Autoridad de Certificacion Firmaprosfesional CIF A62634068,C=ES
# Not Valid Before: Wed May 20 08:38:15 2009

END

CKA_NSS_Mozilla_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
END 

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Izenpe.com"
# Issuer: CN=Izenpe.com,O=IZENPE S.A.,C=ES
# Subject: CN=Izenpe.com,O=IZENPE S.A.,C=ES
# Not Valid Before: Thu Dec 13 13:08:28 2007
# Not Valid After : Sun Dec 13 08:27:25 2037
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Izenpe.com"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL \057\170\075\045\122\030\247\112\145\071\161\265\054\242\234\105 \025\157\351\031
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL \246\260\315\205\200\332\134\120\064\243\071\220\057\125\147\163 END
CKA_ISSUER MULTILINE_OCTAL \060\070\061\013\060\001\100\003\125\004\006\023\002\105\123\061 \024\060\022\006\003\125\004\012\140\013\111\120\013\105\116\120\010 \040\123\056\010\056\061\102\060\021\006\003\125\004\003\014\012 \111\172\145\156\160\145\056\143\157\155 END
# Certificate "Chambers of Commerce Root - 2008"

# Issuer: CN=Chambers of Commerce Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU
# Serial Number:00:a3:da:42:7e:a4:b1:ae:da
# Subject: CN=Chambers of Commerce Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU
# Not Valid Before: Fri Aug 01 12:29:50 2008
# Not Valid After : Sat Jul 31 12:29:50 2038

# Certificate "Chambers of Commerce Root - 2008"

# Issuer: CN=Chambers of Commerce Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU
# Serial Number:00:a3:da:42:7e:a4:b1:ae:da
# Subject: CN=Chambers of Commerce Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU
# Not Valid Before: Fri Aug 01 12:29:50 2008
# Not Valid After : Sat Jul 31 12:29:50 2038

# Certificate "Chambers of Commerce Root - 2008"

# Issuer: CN=Chambers of Commerce Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU
# Serial Number:00:a3:da:42:7e:a4:b1:ae:da
# Subject: CN=Chambers of Commerce Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU
# Not Valid Before: Fri Aug 01 12:29:50 2008
# Not Valid After : Sat Jul 31 12:29:50 2038

# Certificate "Chambers of Commerce Root - 2008"

# Issuer: CN=Chambers of Commerce Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU
# Serial Number:00:a3:da:42:7e:a4:b1:ae:da
# Subject: CN=Chambers of Commerce Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU
# Not Valid Before: Fri Aug 01 12:29:50 2008
# Not Valid After : Sat Jul 31 12:29:50 2038

# Certificate "Chambers of Commerce Root - 2008"

# Issuer: CN=Chambers of Commerce Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU
# Serial Number:00:a3:da:42:7e:a4:b1:ae:da
# Subject: CN=Chambers of Commerce Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU
# Not Valid Before: Fri Aug 01 12:29:50 2008
# Not Valid After : Sat Jul 31 12:29:50 2038

# Certificate "Chambers of Commerce Root - 2008"

# Issuer: CN=Chambers of Commerce Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU
# Serial Number:00:a3:da:42:7e:a4:b1:ae:da
# Subject: CN=Chambers of Commerce Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU
# Not Valid Before: Fri Aug 01 12:29:50 2008
# Not Valid After : Sat Jul 31 12:29:50 2038
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Chambers of Commerce Root - 2008"
# Issuer: CN=Chambers of Commerce Root - 2008, O=AC Camerfirma S.A., serialNumber=A82743287, L=Madrid
# (see current address at www.camerfirma.com/address), C=EU
# Serial Number: 00:a3:da:42:7e:a4:b1:ae:da
# Subject: CN=Chambers of Commerce Root - 2008, O=AC Camerfirma S.A., serialNumber=A82743287, L=Madrid
# (see current address at www.camerfirma.com/address), C=EU
# Not Valid Before: Fri Aug 01 12:29:50 2008
# Not Valid After: Sat Jul 31 12:29:50 2038
# Certificate "Global Chambersign Root - 2008"

# Issuer: CN=Global Chambersign Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU
# Serial Number:00:c9:cd:d3:e9:d5:7d:23:ce
# Subject: CN=Global Chambersign Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU
# Not Valid Before: Fri Aug 01 12:31:40 2008
# Not Valid After : Sat Jul 31 12:31:40 2038

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Global Chambersign Root - 2008"
# Issuer: CN=Global Chambersign Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU
# Serial Number: 00:c9:cd:d3:e9:d5:7d:23:ce
# Subject: CN=Global Chambersign Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU
# Not Valid Before: Fri Aug 01 12:31:40 2008
# Not Valid After: Sat Jul 31 12:31:40 2038
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Global Chambersign Root - 2008"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\112\275\356\354\225\015\067\234\211\256\307\122\241\054\133\051\366\326\252\014
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\236\200\377\170\001\014\056\301\066\275\376\226\220\156\010\363
END

CKA_ISSUER_MULTILINE_OCTAL
\063\102\351\105\012\174\155\362\206\171\057\305\202\031\175\011
\211\174\262\124\166\210\256\336\301\363\314\341\156\333\061\326
\223\256\232\124\305\045\152\163\230\211\133\072\056\023\212\003\036
\277\300\222\224\046\033\343\047\267\213\036\157\102\377\347\351
\067\233\120\035\055\242\371\002\356\313\130\130\072\161\127\4150
\343\252\301\257\034\050\037\242\334\043\145\077\201\352\256\231
\323\330\060\317\023\015\117\025\311\204\274\247\110\055\370\060
\043\167\330\106\113\171\155\366\214\355\072\177\140\021\170\364
\351\123\256\325\124\300\164\200\321\013\102\237\301

END
CKA_NSS_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Global Chambersign Root - 2008"
Issuer: CN=Global Chambersign Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU
Serial Number: 00:c9:cd:d3:e9:d5:7d:23:ce
Subject: CN=Global Chambersign Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU
Not Valid After: Sat Jul 31 12:31:40 2038

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Global Chambersign Root - 2008"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\112\275\356\354\225\015\065\234\211\256\307\122\241\054\133\051
366\326\252\014

END

CKACERT_MD5_HASH MULTILINE_OCTAL
\236\200\377\170\001\014\056\301\066\275\376\226\220\156\010\363

END

CKA_ISSUER_MULTILINE_OCTAL
\063\102\351\105\012\174\155\362\206\171\057\305\202\031\175\011
\211\174\262\124\166\210\256\336\301\363\314\341\156\333\061\326
\223\256\232\124\305\045\152\163\230\211\133\072\056\023\212\003\036
\277\300\222\224\046\033\343\047\267\213\036\157\102\377\347\351
\067\233\120\035\055\242\371\002\356\313\130\130\072\161\127\4150
\343\252\301\257\034\050\037\242\334\043\145\077\201\352\256\231
\323\330\060\317\023\015\117\025\311\204\274\247\110\055\370\060
\043\167\330\106\113\171\155\366\214\355\072\177\140\021\170\364
\351\123\256\325\124\300\164\200\321\013\102\237\301

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Certificate "Go Daddy Root Certificate Authority - G2"

# Issuer: CN=Go Daddy Root Certificate Authority - G2,O="GoDaddy.com, Inc.",L=Scottsdale,ST=Arizona,C=US
# Serial Number: 0 (0x0)
# Subject: CN=Go Daddy Root Certificate Authority - G2,O="GoDaddy.com, Inc.",L=Scottsdale,ST=Arizona,C=US
# Not Valid Before: Tue Sep 01 00:00:00 2009
# Not Valid After: Thu Dec 31 23:59:59 2037

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Go Daddy Root Certificate Authority - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

END

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# Trust for Certificate "Go Daddy Root Certificate Authority - G2"
# Issuer: CN=Go Daddy Root Certificate Authority - G2,O="GoDaddy.com, Inc.",L=Scottsdale,ST=Arizona,C=US
# Serial Number: 0 (0x0)
# Subject: CN=Go Daddy Root Certificate Authority - G2,O="GoDaddy.com, Inc.",L=Scottsdale,ST=Arizona,C=US
# Not Valid Before: Tue Sep 01 00:00:00 2009
# Not Valid After : Thu Dec 31 23:59:59 2037

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Go Daddy Root Certificate Authority - G2"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\107\276\253\311\042\352\350\016\170\170\064\142\247\237\105\302
\124\375\346\213

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\200\072\274\042\301\346\373\215\233\073\112\062\033\232\001

END

CKA_ISSUER MULTILINE_OCTAL
\060\021\200\66\110\013\060\011\006\003\125\004\006\023\002\125\123
\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157
# Certificate "Starfield Root Certificate Authority - G2"

# Issuer: CN=Starfield Root Certificate Authority - G2,O="Starfield Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US  
# Serial Number: 0 (0x0)  
# Subject: CN=Starfield Root Certificate Authority - G2,O="Starfield Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US  
# Not Valid Before: Tue Sep 01 00:00:00 2009  
# Not Valid After : Thu Dec 31 23:59:59 2037  

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE  
CKA_TOKEN CK_BBOOL CK_TRUE  
CKA_PRIVATE CK_BBOOL CK_FALSE  
CKA_MODIFIABLE CK_BBOOL CK_FALSE  
CKA_LABEL UTF8 "Starfield Root Certificate Authority - G2"  
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509  

CKA_SUBJECT MULTILINE_OCTAL  
\164\164\163\144\141\154\145\061\032\060\030\006\003\125\004\012  
\023\021\107\157\104\141\144\141\171\056\143\157\155\054\040\111  
\156\143\056\061\061\060\005\006\003\125\004\033\023\050\107\157  
\040\104\141\144\144\171\040\122\157\157\164\040\103\145\162\164  
\151\146\151\143\141\164\145\040\010\165\164\150\157\162\151\164  
\171\040\055\040\107\062  
END  

CKA_SERIAL_NUMBER MULTILINE_OCTAL  
\002\001\000  
END  

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR  
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST  
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST  
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE  

CKA_ID UTF8 "0"  
CKA_ISSUER MULTILINE_OCTAL  
\060\201\121\061\013\060\011\006\003\125\004\006\023\002\125\123  
\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157  
\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157  
\164\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012  
\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150  
\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\062  
\060\060\006\003\125\004\003\023\051\123\164\141\162\146\151\145  
\154\144\040\122\157\157\164\040\103\145\162\164\151\146\151\143  
\141\164\145\040\101\165\164\150\157\162\151\164\171\040\055\040  
\107\062  
END  

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# Trust for Certificate "Starfield Root Certificate Authority - G2"

# Issuer: CN=Starfield Root Certificate Authority - G2,O="Starfield Technologies, Inc.".,L=Scottsdale,ST=Arizona,C=US

# Serial Number: 0 (0x0)

# Subject: CN=Starfield Root Certificate Authority - G2,O="Starfield Technologies, Inc.".,L=Scottsdale,ST=Arizona,C=US

# Not Valid Before: Tue Sep 01 00:00:00 2009

# Not Valid After : Thu Dec 31 23:59:59 2037


CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Services Root Certificate Authority - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\265\034\006\174\356\053\014\075\370\125\253\055\222\364\376\071\324\347\017\016
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\326\071\201\306\122\176\226\151\374\037\312\146\355\005\362\226\376\146
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\217\061\013\060\011\006\003\125\004\006\023\023\125\123
\061\020\060\016\060\003\125\004\010\023\007\101\162\151\172\157
\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012
\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150
\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\062
\060\060\006\003\125\004\003\023\051\123\164\141\162\146\151\145
\154\144\040\122\157\157\164\040\103\145\162\164\151\146\151\143
\141\164\145\040\101\165\164\150\157\162\151\164\171\040\055\040
\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Starfield Services Root Certificate Authority - G2"
# Serial Number: 0 (0x0)
# Subject: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies, Inc." ,L=Scottsdale,ST=Arizona,C=US
# Not Valid Before: Tue Sep 01 00:00:00 2009
# Not Valid After : Thu Dec 31 23:59:59 2037
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Services Root Certificate Authority - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\230\061\013\060\011\006\003\125\004\006\023\023\125\123

# Trust for Certificate "Starfield Services Root Certificate Authority - G2"
# Serial Number: 0 (0x0)
# Subject: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies, Inc.,L=Scottsdale,ST=Arizona,C=US
# Not Valid Before: Tue Sep 01 00:00:00 2009
# Not Valid After : Thu Dec 31 23:59:59 2037
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Services Root Certificate Authority - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\222\132\217\215\054\155\004\340\146\137\131\152\377\042\330\143\350\045\157\077
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\027\065\164\257\173\141\034\353\364\371\074\342\356\100\371\242
END
CKA_ISSUER MULTILINE_OCTAL
\060\020\060\016\006\003\125\004\006\023\002\125\123
\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\010\023\060\021\006\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\104\056\060\043\006\003\125\004\012
\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150
\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\107\3
\060\071\006\003\125\004\003\023\062\123\164\141\162\146\151\145
\154\144\040\123\145\162\166\151\143\145\153\040\122\157\157\164
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\040\055\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\000\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "AffirmTrust Commercial"
#
# Issuer: CN=AffirmTrust Commercial,O=AffirmTrust,C=US
# Serial Number:77:77:06:27:26:a9:b1:7c
# Subject: CN=AffirmTrust Commercial,O=AffirmTrust,C=US
Not Valid Before: Fri Jan 29 14:06:06 2010
Not Valid After: Tue Dec 31 14:06:06 2030

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Commercial"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\104\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\037\060\035\006\003\125\004\003\014\026
\101\146\146\151\162\155\124\162\165\163\164\040\103\157\155\155
\145\162\143\151\141\154
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\104\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\037\060\035\006\003\125\004\003\014\026
\101\146\146\151\162\155\124\162\165\163\164\040\103\157\155\155
\145\162\143\151\141\154
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\167\167\006\047\251\261\174
END

CKA_VALUE MULTILINE_OCTAL
\060\202\003\114\060\202\002\064\240\003\002\001\002\002\010\167
\167\006\047\046\251\261\174\060\015\006\011\052\206\110\206367
\015\001\001\130\005\000\060\040\061\013\060\011\006\003\125\004
\006\023\002\125\123\061\024\060\022\006\003\125\004\012\014\013
\101\146\146\151\162\155\124\162\165\163\164\016\103\067\006\003\050
\003\125\004\003\014\026\101\146\146\151\162\155\124\162\165\163
\164\040\103\157\155\155\145\162\143\151\141\154\060\036\027\015
\161\060\060\061\062\071\016\064\060\066\060\066\132\027\015\063
\060\060\061\062\063\061\061\064\060\066\060\066\132\020\040\061\013
\060\060\011\006\003\125\004\006\023\002\125\123\061\024\060\022\006
\003\125\004\012\014\013\101\146\146\151\162\155\124\162\165\163
\164\061\037\060\035\006\003\125\004\003\014\026\101\146\146\151
\162\155\124\162\165\163\164\040\103\157\155\155\145\162\143\151
\141\154\060\022\000\014\020\015\006\011\052\206\110\206367
\015\001\001\001\005\000\003\020\001\017\000\006\002\011\012\020
\001\001\001\003\066\033\117\147\070\053\241\125\365\006\042\133\037
\001\126\343\163\105\006\014\111\054\273\111\045\024\326\316\033
\267\235\054\117\306\101\062\022\012\127\372\029\017\133\016\342\017
\037\036\206\031\124\125\265\055\271\137\015\122\302\257\205\065

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END

# Trust for Certificate "AffirmTrust Commercial"
# Issuer: CN=AffirmTrust Commercial,O=AffirmTrust,C=US
# Serial Number: 77:77:06:27:26:a9:b1:7c
# Subject: CN=AffirmTrust Commercial,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:06:06 2010
# Not Valid After: Tue Dec 31 14:06:06 2030

# CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

cka_nss_mozilla_ca_policy ck_bbool ck_true
cka_nss_server_distrust_after ck_bbool ck_false
cka_nss_email_distrust_after ck_bbool ck_false
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CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Commercial"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\371\265\266\062\105\137\234\276\354\127\137\200\334\351\156\054
\307\262\170\267
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\202\222\272\133\357\135\212\157\246\075\125\371\204\366\326\267
END
CKA_ISSUER MULTILINE_OCTAL
\060\104\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\037\060\035\006\003\125\004\003\014\026
\101\146\146\151\162\155\124\162\165\163\164\040\103\157\155\155
\145\162\143\151\141\154
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\167\167\006\047\046\251\174
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "AffirmTrust Networking"
#
# Issuer: CN=AffirmTrust Networking,O=AffirmTrust,C=US
# Serial Number:7c:4f:04:39:1c:d4:99:2d
# Subject: CN=AffirmTrust Networking,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:08:24 2010
# Not Valid After : Tue Dec 31 14:08:24 2030
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Networking"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\104\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\037\060\035\006\003\125\004\003\014\026
\101\146\146\151\162\155\124\162\165\163\164\040\116\145\164\167
\157\162\153\151\156\147
Open Source Used In Edge Intelligence Edge_1.6 281

# Trust for Certificate "AffirmTrust Networking"
# Issuer: CN=AffirmTrust Networking,O=AffirmTrust,C=US
# Serial Number:7c:4f:04:39:1c:d4:99:2d
# Subject: CN=AffirmTrust Networking,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:08:24 2010
# Not Valid After : Tue Dec 31 14:08:24 2030

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Networking"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\051\066\041\002\213\040\355\002\365\146\305\062\321\326\355\220
\237\105\000\057
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\102\145\312\276\001\232\232\114\251\214\101\111\135\300\325\177
END
CKA_ISSUER MULTILINE_OCTAL
\060\014\046\101\030\060\110\006\003\125\004\406\023\002\125\123\061
\024\060\002\125\004\101\140\130\100\146\146\151\162\155
\124\162\165\163\164\060\103\060\35\060\03\125\004\003\014\026
\101\146\146\151\162\155\124\162\165\163\164\040\116\145\164\167
# Certificate "AffirmTrust Premium"

# Issuer: CN=AffirmTrust Premium,O=AffirmTrust,C=US
# Serial Number: 6d:8c:14:46:b1:a6:0a:ee
# Subject: CN=AffirmTrust Premium,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:10:36 2010
# Not Valid After: Mon Dec 31 14:10:36 2040

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Premium"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\010\010\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\002\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\034\060\032\060\003\125\004\003\014\023
\101\146\146\151\162\155\124\162\165\163\164\040\120\162\145\155
\151\165\155

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\010\010\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\002\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\034\060\032\060\003\125\004\003\014\023
\101\146\146\151\162\155\124\162\165\163\164\040\120\162\145\155
\151\165\155

END

CKA_SERIAL_NUMBER Multiline_Octal
\002\010\155\214\024\120\062\261\124\012\123\056

END

CKA_VALUE MULTILINE_OCTAL
\060\024\005\010\060\022\003\056\240\003\002\001\002\002\002\010\155
\124\024\010\062\261\124\012\356\060\015\006\011\052\206\10\206\367
\015\001\01\014\005\000\060\101\006\013\060\011\006\003\125\004
```
\%04\00\04\00\03\00\02\00\01\00\06\00\06\00\15\00\06\01\01\05\21\26\11\10\20\6\26\0\15\06\7\01\5
\%01\00\01\01\04\00\05\00\00\02\00\02\00\01\00\00\06\26\12\7\11\05\20\20\11\16
\%07\23\44\25\54\32\27\03\42\57\02\62\04\33\31\02\63\11\11\13\21\12\23\41\16
\%05\02\15\17\12\52\12\70\06\02\73\25\36\35\12\23\36\26\27\70\14\35\00\10\104
\%27\70\30\20\43\32\22\13\00\20\31\03\05\02\22\37\50\00\12\50\00\14\12\07\101
\%33\42\65\00\44\23\60\07\43\04\33\30\31\01\37\31\60\23\60\57\17\00\22\62\20\30\14
\%06\03\36\17\14\01\01\15\10\23\21\04\45\16\50\06\66\23\00\10\24\63\06\33\75\24
\%31\63\43\13\03\02\62\67\07\33\62\72\33\33\53\04\10\03\30\22\42\20\21\13\65
\%17\00\77\05\57\32\25\45\37\43\31\22\24\31\13\04\00\04\16\02\71\25\55\37\61\101
\%36\03\45\26\21\12\37\21\04\20\20\63\10\23\50\05\11\03\06\71\26\21\41\142
\%07\72\27\10\21\26\03\23\04\01\13\43\17\60\56\14\45\06\34\12\23\17\00\00\262
\%17\01\16\24\10\15\21\03\05\21\27\00\35\21\16\24\22\03\04\26\03\37\51\16\03\20
\%06\02\44\21\16\31\00\04\14\21\25\10\04\35\06\56\33\36\17\22\27\35\01\06\070
\%13\62\22\05\72\23\16\02\45\25\21\23\41\15\27\47\17\50\02\35\17\63\60\01\10
\%11\02\61\13\61\07\35\53\12\10\01\00\45\35\13\46\04\51\53\12\20\05\11\21\234
\%32\20\71\16\30\01\12\73\36\23\10\00\06\74\13\33\25\02\00\00\63\43\30\2000
\%25\02\70\34\11\20\00\01\12\02\43\20\30\10\10\31\37\33\21\16\05\60\11\175
\%20\01\07\36\23\02\15\24\01\13\01\06\52\23\22\41\15\52\07\23\30\52\62\320
\%27\32\11\20\06\22\33\35\02\23\31\10\17\02\24\71\17\27\02\24\13\160\17\01\06
\%37\23\74\06\70\05\34\51\21\20\04\36\33\37\37\06\00\34\33\24\11\50\20\00\57
\%04\43\34\01\12\25\00\06\32\25\23\13\24\14\44\22\35\37\14\36\66\22\3005
\%27\33\55\16\35\31\05\32\16\57\01\12\73\37\47\04\44\33\33\10\16\13\17\013
\%21\72\36\32\02\04\07\12\77\12\51\60\11\10\23\11\27\06\16\24\13\34\56\112
\%23\00\03\22\26\06\00\37\14\00\00\63\56\03\34\33\37\20\11\40\04\30\12\01\107
\%14\22\05\24\53\14\03\10\06\42\00\15\72\23\25\40\32\34\32\27\36\00\17\31\110
\%25\32\25\00\13\31\14\47\26\25\16\12\22\33\05\20\64\26\52\62\27\03\44
\%07\50\07\26\23\35\11\14\21\43\52\33\00\07\27\72\53\06\23\21\25\60\274
\%03\20\46\26\52\25\01\36\26\42\03\15\41\05\13\11\00\32\23\27\33\34\13\303
\%15\15\37\13\14\11\51\01\16\36\36\12\52\12\01\16\01\21\17\2175\17\20\272
\%24\11\25\22\61\02\23\10\01\11\33\41\04\12\15\05\00\10\16\34\61\216
\%10\32\21\23\50\24\33\30\07\27\34\44\00\05\26\24\13\30\04\44\26\05\33\17
\%02\44\00\72\62\10\08\37\02\43\23\61\10\12\06\27\40\04\32\01\53\22\61\00\052
\%20\00\06\37\52\27\35\07\00\24\33\35\13\30\05\20\07\50\07\21\37\61\236
\%05\13\40\26\62\20\01\11\15\03\13\03\00\103

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "AffirmTrust Premium"
# Issuer: CN=AffirmTrust Premium,O=AffirmTrust,C=US
# Serial Number: 6d:8c:14:46:b1:a6:0a:ee
# Subject: CN=AffirmTrust Premium,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:10:36 2010
# Not Valid After: Mon Dec 31 14:10:36 2040
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
```
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Premium"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\330\246\063\054\340\003\157\261\120\5366\143\117\175\152\006\145\046\062\050\047
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\304\135\016\110\266\254\050\047\107\002\62\127
END
CKA_ISSUER MULTILINE_OCTAL
\060\101\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\011\146\146\151\162\155
\124\162\165\163\164\061\034\060\032\006\003\125\004\003\014\023
\101\146\146\151\162\155\124\162\165\163\164\040\120\162\145\155
\151\165\155
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\155\214\024\106\261\246\356
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "AffirmTrust Premium ECC"
#
# Issuer: CN=AffirmTrust Premium ECC,O=AffirmTrust,C=US
# Serial Number:74:97:25:8a:c7:3f:7a:54
# Subject: CN=AffirmTrust Premium ECC,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:20:24 2010
# Not Valid After : Mon Dec 31 14:20:24 2040
# CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
# CKA_TOKEN CK_BBOOL CK_TRUE
# CKA_PRIVATE CK_BBOOL CK_FALSE
# CKA_MODIFIABLE CK_BBOOL CK_FALSE
# CKA_LABEL UTF8 "AffirmTrust Premium ECC"
# CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
# CKA_SUBJECT MULTILINE_OCTAL
\060\101\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\011\146\146\151\162\155
\124\162\165\163\164\061\034\060\032\006\003\125\004\003\014\023
\101\146\146\151\162\155\124\162\165\163\164\040\120\162\145\155
\151\165\155
END

Open Source Used In Edge Intelligence Edge_1.6 285
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\105\061\103\060\060\011\006\003\125\004\006\023\001\125\123\061
\024\060\020\060\003\125\004\012\010\140\131\010\146\146\151\162\155
\124\162\165\163\164\061\040\060\036\006\003\125\004\003\014\027
\101\146\146\151\162\155\124\162\165\163\164\040\120\162\145\155
\151\165\155\040\105\103\103
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\164\227\045\212\077\172\124
END
CKA_VALUE MULTILINE_OCTAL
\060\202\001\137\060\060\020\020\001\205\240\003\002\001\002\002\010\164
\227\045\212\037\077\172\124\060\012\020\060\010\052\206\110\316\075
\004\003\003\060\105\061\013\060\011\006\003\125\004\006\023\002
\125\012\036\020\060\002\020\060\035\125\004\012\010\140\131\101\146\146
\151\165\155\124\162\165\163\164\061\040\060\036\006\003\125\004
\003\014\027\101\146\146\151\162\155\124\162\165\163\164\040\120
\162\145\155\151\165\155\040\105\103\030\060\036\027\015\061\106\060
\060\060\061\060\061\064\060\061\006\010\052\206\020\060\062\064\132\027\015\064\060
\062\063\061\061\064\062\060\062\064\132\060\010\052\206\020\060\062\064\132\027\015\064
\060\060\061\061\064\062\060\062\064\132\060\010\052\206\020\060\062\064\132\027\015
\060\060\061\061\064\062\060\062\064\132\060\010\052\206\020\060\062\064\132\027\015
\060\060\061\061\064\062\060\062\064\132\060\010\052\206\020\060\062\064\132\027\015
\060\060\061\061\064\062\060\062\064\132\060\010\052\206\020\060\062\064\132\027\015
\060\060\061\061\064\062\060\062\064\132\060\010\052\206\020\060\062\064\132\027
\062\010\012\010\140\131\101\146\146\151\162\155\124\162\165\163\164\061
\104\060\060\036\006\003\125\004\003\014\027\101\146\146\151\162\155
\124\162\165\163\164\040\120\162\145\155\151\165\155\040\105\103
\103\060\166\060\002\000\006\007\052\206\110\316\075\002\000\010\060
\053\032\020\004\000\004\020\031\142\000\004\015\060\136\060\033\025\023
\320\024\117\106\267\072\074\222\172\132\025\034\135\142\363\324
\046\134\007\075\345\124\372\243\326\314\022\352\364\024\137\350
\216\031\125\030\057\056\110\346\254\030\103\170\254\320\067\303\275
\262\315\054\346\107\342\032\346\143\320\057\056\157\170\304\117
\333\364\017\244\150\114\125\162\153\225\035\116\030\102\225\170
\314\067\074\222\134\223\314\155\053\051\243\102\060\100\060\035\006
\003\125\035\016\004\026\000\024\232\232\157\120\301\010\065\065
\046\121\060\060\000\033\152\376\100\325\256\326\074\060\017\006\003
\125\035\023\001\000\137\770\004\005\060\060\030\001\001\137\770\060
\003\125\035\017\000\100\137\770\040\004\003\002\001\006\060\012\006
\010\005\220\061\103\167\055\004\003\003\003\147\000\006\144\002\060
\027\011\136\363\207\210\120\132\257\310\300\102\277\107\137\365\154
\152\206\340\034\047\164\344\070\123\327\005\177\033\064\343\306
\057\263\012\171\040\067\235\327\347\270\066\361\175\241\342\161
\002\060\100\121\037\332\124\137\272\233\011\062\322\316\210
\176\127\075\234\137\102\153\365\007\055\265\360\202\223\371\131
\157\256\144\372\130\345\213\036\343\143\276\265\201\135\157\002
\214\171
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
# Trust for Certificate "AffirmTrust Premium ECC"
# Issuer: CN=AffirmTrust Premium ECC, O=AffirmTrust, C=US
# Serial Number: 74:97:25:8a:c7:3f:7a:54
# Subject: CN=AffirmTrust Premium ECC, O=AffirmTrust, C=US
# Not Valid Before: Fri Jan 29 14:20:24 2010
# Not Valid After: Mon Dec 31 14:20:24 2040
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Premium ECC"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\270\043\153\000\057\035\026\206\123\001\125\154\021\244\067\312\353\377\303\273
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\144\260\011\125\317\261\132\253\231\342\276\023\253\246\135\352\115
END
CKA_ISSUER MULTILINE_OCTAL
\060\105\061\013\060\001\100\003\125\004\006\023\002\125\123\061\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155\124\162\165\163\164\040\120\162\145\155\151\165\155\040\105\103\103
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\164\227\045\212\307\077\172\124
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Certum Trusted Network CA"
# Issuer: CN=Certum Trusted Network CA, OU=Certum Certification Authority, O=Unizeto Technologies S.A., C=PL
# Serial Number: 279744 (0x444c0)
# Subject: CN=Certum Trusted Network CA, OU=Certum Certification Authority, O=Unizeto Technologies S.A., C=PL
# Not Valid After: Mon Dec 31 12:07:37 2029
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Network CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\176\061\013\060\011\006\003\125\004\006\023\002\120\114\060
\042\060\040\000\003\125\004\012\023\031\125\156\151\172\145\164
\157\040\124\145\143\150\156\157\154\157\147\151\145\163\040\123
\056\101\056\040\047\060\045\006\003\125\004\013\023\036\103\145
\162\164\165\155\040\103\161\164\164\165\146\146\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\061\042\060\040
\006\003\125\004\003\023\031\103\145\162\164\165\155\040\124\162
\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\176\061\013\060\011\006\003\125\004\006\023\002\120\114\060
\042\060\040\000\003\125\004\012\023\031\125\156\151\172\145\164
\157\040\124\145\143\150\156\157\154\157\147\151\145\163\040\123
\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145
\162\164\165\155\040\103\145\162\164\151\164\171\061\042\060\040
\006\003\125\004\003\023\031\103\145\162\164\165\155\040\124\162
\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\004\010\300
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\273\060\202\020\243\240\003\020\001\002\002\003\004
\104\030\060\150\060\011\052\206\102\063\67\015\001\001\005\005
\000\060\176\061\013\060\011\006\003\125\004\006\023\002\120\114
\061\102\060\040\006\003\125\004\012\023\031\125\156\151\172\145
\164\157\040\124\145\143\150\156\157\154\157\147\151\145\163\040
\123\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103
\145\156\164\151\155\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\061\042\060\040
\004\006\003\125\004\003\023\031\103\145\162\164\165\155\040\124
\162\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103\101
END
# Trust for Certificate "Certum Trusted Network CA"
# Issuer: CN=Certum Trusted Network CA, OU=Certum Certification Authority, O=Unizeto Technologies S.A., C=PL
# Serial Number: 279744 (0x444c0)
# Subject: CN=Certum Trusted Network CA, OU=Certum Certification Authority, O=Unizeto Technologies S.A., C=PL
# Not Valid After: Mon Dec 31 12:07:37 2029

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Network CA"

END

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Network CA"

END

# Certificate "TWCA Root Certification Authority"
# Issuer: CN=TWCA Root Certification Authority, OU=Root CA, O=TAIWAN-CA, C=TW
# Serial Number: 1 (0x1)

END
# Trust for Certificate "TWCA Root Certification Authority"

# Issuer: CN=TWCA Root Certification Authority,OU=Root CA,O=TAIWAN-CA,C=TW
Serial Number: 1 (0x1)
Subject: CN=TWCA Root Certification Authority,OU=Root CA,O=TAIWAN-CA,C=TW
Not Valid After: Tue Dec 31 15:59:59 2030

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TWCA Root Certification Authority"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
3172362071553323353374102046227243265243172240166
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
252010217366371173267362261247036233352352275171
END
CKA_ISSUER MULTILINE_OCTAL
06013706010130060110060031250004006023002124127061
022060020006003125000401214011124101111111271011116
05510310106102006001600600312500040131401171221157
157164004010310106105206005000600312500400033014041
12412710310104012211571571164040103145162164151146
151143141164151157156040101165164150157162151164
171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
0020001001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Certificate "Explicitly Distrust DigiNotar Root CA"

Issuer: E=info@diginotar.nl,CN=DigiNotar Root CA,O=DigiNotar,C=NL
Serial Number:0f:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff
Subject: E=info@diginotar.nl,CN=DigiNotar Root CA,O=DigiNotar,C=NL
Not Valid After: Mon Mar 31 18:19:22 2025
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
# Trust for Certificate "Explicitly Distrust DigiNotar Root CA"
# Issuer: E=info@diginotar.nl,CN=DigiNotar Root CA,O=DigiNotar,C=NL
# Serial Number:0f:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff
# Subject: E=info@diginotar.nl,CN=DigiNotar Root CA,O=DigiNotar,C=NL
# Not Valid Before: Fri Jul 27 17:19:37 2007
# Not Valid After : Mon Mar 31 18:19:22 2025
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Explicitly Distrust DigiNotar Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
8011671311340264046216365307317052310422071260
1316272041057
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
801224432531427226437324313133433460013351233331116
END
CKA_ISSUER_MULTILINE_OCTAL
806013706101306001100600312500040060230021116114061
80220600200600031250004012023011110415111471511161157
1164111620610320600030060312500400300230221104151
114711116115711641141162040122157157164040103101061
80400600360060110522061102060367015001011001026021
Open Source Used In Edge Intelligence Edge_1.6  297

ENA

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\017\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_NOT_TRUSTED

CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_NOT_TRUSTED

CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_NOT_TRUSTED

CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Explicitly Distrusted DigiNotar PKIoverheid G2"
#
# Issuer: CN=DigiNotar PKIoverheid CA Organisatie - G2,O=DigiNotar B.V.,C=NL
# Serial Number: 268435455 (0xffffff)
# Subject: CN=DigiNotar PKIoverheid CA Organisatie - G2,O=DigiNotar B.V.,C=NL
# Not Valid Before: Wed May 12 08:51:39 2010
# Not Valid After : Mon Mar 23 09:50:05 2020
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Explicitly Distrusted DigiNotar PKIoverheid G2"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\132\060\013\060\011\006\003\125\004\006\023\002\116\140\061
\027\060\025\006\003\125\004\012\140\161\104\151\147\151\116\157
\164\141\162\040\102\056\126\056\061\062\060\060\006\003\125\004
\003\014\005\104\151\147\151\116\157\164\141\162\040\120\113\111
\157\166\145\151\162\150\145\151\144\040\103\101\040\117\162\147\141
\156\151\163\141\164\151\145\040\055\040\107\062

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\132\060\013\060\011\006\003\125\004\006\023\002\116\140\061
\027\060\025\006\003\125\004\012\140\161\104\151\147\151\116\157
\164\141\162\040\102\056\126\056\061\062\060\060\006\003\125\004
\003\014\005\104\151\147\151\116\157\164\141\162\040\120\113\111
\157\166\145\151\162\150\145\151\144\040\103\101\040\117\162\147\141
\156\151\163\141\164\151\145\040\055\040\107\062

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\017\377\377\377

END
# Trust for Certificate "Explicitly Distrusted DigiNotar PKIoverheid G2"
# Issuer: CN=DigiNotar PKIoverheid CA Organisatie - G2,O=DigiNotar B.V.,C=NL
# Serial Number: 268435455 (0xffffffff)
# Subject: CN=DigiNotar PKIoverheid CA Organisatie - G2,O=DigiNotar B.V.,C=NL
# Not Valid Before: Wed May 12 08:51:39 2010
# Not Valid After : Mon Mar 23 09:50:05 2020
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Explicitly Distrusted DigiNotar PKIoverheid G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "Security Communication RootCA2"

# Issuer: OU=Security Communication RootCA2,O="SECOM Trust Systems CO.,LTD.",C=JP
# Serial Number: 0 (0x0)
# Subject: OU=Security Communication RootCA2,O="SECOM Trust Systems CO.,LTD.",C=JP
# Not Valid Before: Fri May 29 05:00:39 2009
# Not Valid After : Tue May 29 05:00:39 2029

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Security Communication RootCA2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\135\061\013\060\011\006\000\012\023\002\112\120\061
\045\060\043\006\000\012\023\003\123\105\010\117\150\040
\124\162\165\163\164\040\123\171\163\164\145\155\163\040\103\117
\056\054\114\124\104\056\061\047\060\045\006\000\125\004\013\023
\036\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156
\151\143\141\164\151\157\156\040\122\157\157\164\103\101\062
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\135\061\013\060\011\006\000\012\023\002\112\120\061
\045\060\043\006\000\012\023\003\123\105\103\117\150\040
\124\162\165\163\164\040\123\171\163\164\145\155\163\040\103\117
\056\054\114\124\104\056\061\047\060\045\006\000\125\004\013\023
\036\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156
\151\143\141\164\151\157\156\040\122\157\157\164\103\101\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000

END

CKA_VALUE MULTILINE_OCTAL
\060\020\003\167\060\202\000\202\137\024\000\000\001\002\002\002\000\100
\060\015\006\011\052\206\112\206\037\015\001\001\013\005\000\060
\135\061\013\060\011\006\003\125\004\006\023\002\112\120\061\045
\060\043\006\000\013\250\004\012\023\034\123\105\103\117\115\040\124
\162\165\163\164\040\123\171\163\164\145\155\163\040\103\117
\054\114\124\104\056\061\047\060\045\006\000\125\004\013\023
\036\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156
\151\143\141\164\151\157\156\040\122\157\157\164\103\101\062

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000

END

CKA_VALUE MULTILINE_OCTAL
\060\020\003\167\060\202\000\202\137\024\000\000\001\002\002\002\000\100
\060\015\006\011\052\206\112\206\037\015\001\001\013\005\000\060
\135\061\013\060\011\006\003\125\004\006\023\002\112\120\061\045
\060\043\006\000\013\250\004\012\023\034\123\105\103\117\115\040\124
\162\165\163\164\040\123\171\163\164\145\155\163\040\103\117
\054\114\124\104\056\061\047\060\045\006\000\125\004\013\023
\036\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156
\151\143\141\164\151\157\156\040\122\157\157\164\103\101\062

END
# Trust for Certificate "Security Communication RootCA2"
# Issuer: OU=Security Communication RootCA2,O="SECOM Trust Systems CO.,LTD." ,C=JP
# Serial Number: 0 (0x0)
# Not Valid Before: Fri May 29 05:00:39 2009
# Not Valid After: Tue May 29 05:00:39 2029
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Security Communication RootCA2"
CKA_ISSUER MULTILINE_OCTAL
\137\073\214\362\370\020\263\175\170\264\316\354\031\031\303\163
\064\271\307\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "EC-ACC"
# Issuer: CN=EC-ACC,OU=Jerarquia Entitats de Certificacio Catalanes,OU=Vegeu https://www.catcert.net/verarrel (c) 03,OU=Serveis Publics de Certificacio,O=Agencia Catalana de Certificacio (NIF Q-0801176-I),C=ES
# Subject: CN=EC-ACC,OU=Jerarquia Entitats de Certificacio Catalanes,OU=Vegeu https://www.catcert.net/verarrel (c) 03,OU=Serveis Publics de Certificacio,O=Agencia Catalana de Certificacio (NIF Q-0801176-I),C=ES
# Not Valid Before: Tue Jan 07 23:00:00 2003
# Not Valid After : Tue Jan 07 22:59:59 2031

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "EC-ACC"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\073\066\061\013\060\060\011\006\060\03\125\004\006\023\002\105\123
\061\073\060\071\006\060\03\125\004\012\023\062\101\147\145\156\143
\151\141\040\103\141\164\141\154\141\156\141\040\144\145\040\103
\145\162\164\151\146\151\143\141\143\151\157\040\050\116\111\1106
\040\121\055\060\070\060\061\061\067\066\055\11\051\061\050\060
\046\006\003\125\004\013\023\037\123\145\162\166\145\151\163\040
\120\161\142\151\143\143\163\040\144\145\040\103\145\162\164\151
\146\151\143\141\143\151\157\061\065\060\063\006\003\125\004\013
\023\054\126\145\147\145\165\040\150\164\161\060\163\072\057\057
\167\161\167\056\141\146\143\143\145\162\164\056\156\145\164\057
\166\145\162\141\163\162\145\154\040\050\143\051\060\063\061\065
\060\063\006\003\125\004\013\023\054\112\145\162\161\165
\151\141\040\105\156\164\151\164\141\164\163\040\144\145\040\103
\145\162\164\151\146\151\143\141\143\151\157\040\103\141\164\141
\154\11\156\145\163\061\017\060\015\060\003\125\004\003\023\006
\105\103\055\101\03\103
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\073\066\061\013\060\060\011\006\060\03\125\004\006\023\002\105\123
\061\073\060\071\006\060\03\125\004\012\023\062\101\147\145\156\143
\151\141\040\103\141\164\141\154\141\156\141\040\144\145\040\103
\145\162\164\151\146\151\143\141\143\151\157\040\050\116\111\1106
\040\121\055\060\070\060\061\061\067\066\055\11\051\061\050\060
\046\006\003\125\004\013\023\037\123\145\162\166\145\151\163\040
\120\161\142\151\143\143\163\040\144\145\040\103\145\162\164\151
\146\151\143\141\143\151\157\061\065\060\063\006\003\125\004\013
\023\054\126\145\147\145\165\040\150\164\161\060\163\072\057\057
\167\161\167\056\141\146\143\143\145\162\164\056\156\145\164\057
\166\145\162\141\163\162\145\154\040\050\143\051\060\063\061\065
\060\063\006\003\125\004\013\023\054\112\145\162\161\165
\151\141\040\105\156\164\151\164\141\164\163\040\144\145\040\103
\145\162\164\151\146\151\143\141\143\151\157\040\103\141\164\141
\154\11\156\145\163\061\017\060\015\060\003\125\004\003\023\006
\105\103\055\101\03\103
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
For Email Distrust After: Wed Aug 31 00:00:00 2022

For Email Distrust After MULTILINE_OCTAL

Trust for Certificate "EC-ACC"
Issuer: CN=EC-ACC,OU=Jerarquia Entitats de Certificacio Catalanes,OU=Vegeu https://www.catcert.net/verarrel (c)03,OU=Serveis Publics de Certificacio,O=Agencia Catalana de Certificacio (NIF Q-0801176-I),C=ES
Subject: CN=EC-ACC,OU=Jerarquia Entitats de Certificacio Catalanes,OU=Vegeu https://www.catcert.net/verarrel (c)03,OU=Serveis Publics de Certificacio,O=Agencia Catalana de Certificacio (NIF Q-0801176-I),C=ES
Not Valid Before: Tue Jan 07 23:00:00 2003
Not Valid After : Tue Jan 07 22:59:59 2031

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "EC-ACC"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

CKA_CERT_MD5_HASH MULTILINE_OCTAL

CKA_ISSUER MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

END

END

END

END
# Certificate "Hellenic Academic and Research Institutions RootCA 2011"

# Issuer: CN=Hellenic Academic and Research Institutions RootCA 2011,O=Hellenic Academic and Research Institutions Cert. Authority,C=GR
# Serial Number: 0 (0x0)
# Subject: CN=Hellenic Academic and Research Institutions RootCA 2011,O=Hellenic Academic and Research Institutions Cert. Authority,C=GR
# Not Valid Before: Tue Dec 06 13:49:52 2011
# Not Valid After : Mon Dec 01 13:49:52 2031

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions RootCA 2011"

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions RootCA 2011"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\021\225\061\013\060\001\11\006\003\125\004\006\023\002\107\122
\061\104\060\012\020\003\125\004\125\023\073\110\145\154\145
\156\151\143\040\101\143\111\144\145\155\151\143\040\141\156\144
\040\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164
\165\164\151\157\156\163\040\103\145\162\164\056\040\101\165\164
\150\157\162\151\164\171\061\100\060\076\060\03\125\004\003\023
\067\110\145\154\154\145\151\143\040\101\143\141\144\145\155
\151\113\040\141\156\144\040\122\145\163\145\141\162\143\150\040
\111\156\163\164\151\164\165\164\151\157\156\163\040\122\157\157
\164\103\101\040\062\060\061\061
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\021\225\061\013\060\001\11\006\003\125\004\006\023\002\107\122
\061\104\060\012\020\003\125\004\125\023\073\110\145\154\145
\156\151\143\040\101\143\111\144\145\155\151\143\040\141\156\144
\040\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164
\165\164\151\157\156\163\040\103\145\162\164\056\040\101\165\164
\150\157\162\151\164\171\061\100\060\076\060\03\125\004\003\023
\067\110\145\154\154\145\151\143\040\101\143\141\144\145\155
\151\113\040\141\156\144\040\122\145\163\145\141\162\143\150\040
\111\156\163\164\151\164\165\164\151\157\156\163\040\122\157\157
Open Source Used In Edge Intelligence Edge_1.6 309
# Trust for Certificate "Hellenic Academic and Research Institutions RootCA 2011"
# Issuer: CN=Hellenic Academic and Research Institutions RootCA 2011,O=Hellenic Academic and Research Institutions Cert. Authority,C=GR
# Serial Number: 0 (0x0)
# Subject: CN=Hellenic Academic and Research Institutions RootCA 2011,O=Hellenic Academic and Research Institutions Cert. Authority,C=GR
# Not Valid Before: Tue Dec 06 13:49:52 2011
# Not Valid After : Mon Dec 01 13:49:52 2031

\n
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Open Source Used In Edge Intelligence Edge_1.6 310
# Explicitly Distrust "MITM subCA 1 issued by Trustwave", Bug 724929
# Issuer: E=ca@trustwave.com,CN="Trustwave Organization Issuing CA, Level 2",O="Trustwave Holdings, Inc.".L=Chicago,ST=Illinois,C=US
# Serial Number: 1800000005 (0x6b49d205)
# Not Before: Apr 7 15:37:15 2011 GMT
# Not After : Apr 4 15:37:15 2021 GMT

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "MITM subCA 1 issued by Trustwave"
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\153\111\322\005
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Explicitly Distrust "MITM subCA 2 issued by Trustwave", Bug 724929
# Issuer: E=ca@trustwave.com,CN="Trustwave Organization Issuing CA, Level 2",O="Trustwave Holdings, Inc.",L=Chicago,ST=Illinois,C=US
# Serial Number: 1800000006 (0x6b49d206)
# Not Before: Apr 18 21:09:30 2011 GMT
# Not After: Apr 15 21:09:30 2021 GMT
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "MITM subCA 2 issued by Trustwave"
CKA_ISSUER MULTILINE_OCTAL
\060\101\103\060\011\006\003\125\004\006\023\002\125\123
\061\101\106\000\17\006\003\125\004\010\023\010\111\114\154\151\156
\157\151\163\061\020\060\016\006\003\125\004\007\023\007\103\150
\151\143\141\147\157\061\041\060\037\006\003\125\004\012\023\030
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156
\147\163\054\040\111\115\143\050\061\063\060\060\006\003\125\004
\003\023\052\124\162\165\163\164\167\141\166\145\040\117\162\147
\141\156\151\172\141\164\151\157\156\040\111\163\163\165\151\156
\147\040\103\101\054\040\114\145\166\145\145\040\062\061\037\060
\035\006\011\052\206\110\206\367\015\001\011\001\026\020\143\141
\100\164\162\165\163\164\167\141\166\145\056\143\157\155
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\153\111\322\006
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Actalis Authentication Root CA"
#
# Issuer: CN=Actalis Authentication Root CA,O=Actalis S.p.A./03358520967,L=Milan,C=IT
# Serial Number:57:0a:11:97:42:c4:e3:cc
# Subject: CN=Actalis Authentication Root CA,O=Actalis S.p.A./03358520967,L=Milan,C=IT
# Not Valid Before: Thu Sep 22 11:22:02 2011

Open Source Used In Edge Intelligence Edge_1.6 312
# Not Valid After : Sun Sep 22 11:22:02 2030


CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Actalis Authentication Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\153\061\013\060\011\006\003\125\004\006\023\002\111\124\061
\016\060\014\014\006\003\125\004\007\014\005\151\151\154\141\156\061
\043\060\041\006\003\125\004\012\014\032\101\143\164\141\154\151
\163\040\123\056\160\056\101\156\057\060\063\063\065\070\065\062
\060\071\066\067\061\047\060\045\056\000\312\050\003\014\036\101
\143\164\141\154\151\163\040\101\116\164\150\145\156\164\151\143
\141\164\151\157\156\040\122\157\157\164\040\103\101
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\153\061\013\060\011\006\003\125\004\006\023\002\111\124\061
\016\060\014\014\006\003\125\004\007\014\005\151\151\154\141\156\061
\043\060\041\006\003\125\004\012\014\032\101\143\164\141\154\151
\163\040\123\056\160\056\101\156\057\060\063\063\065\070\065\062
\060\071\066\067\061\047\060\045\056\000\312\050\003\014\036\101
\143\164\141\154\151\163\040\101\116\164\150\145\156\164\151\143
\141\164\151\157\156\040\122\157\157\164\040\103\101
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\127\021\012\021\227\102\304\343\314
END

CKA_VALUE MULTILINE_OCTAL
\060\202\005\273\060\202\003\243\240\003\002\001\002\002\010\127
\012\021\227\102\304\343\314\060\015\006\011\052\206\110\206\367
\015\001\001\013\005\000\060\153\061\013\060\011\006\003\125\004
\006\023\002\111\124\061\106\060\140\006\003\125\004\007\14\005
\115\151\154\151\156\061\043\060\041\006\003\125\004\012\014\032
\101\143\164\141\154\151\163\040\123\056\160\056\101\056\057\060
\063\063\065\070\065\062\060\071\066\067\061\047\060\045\006\003
\125\004\003\014\036\101\143\164\141\154\151\163\040\101\116\165\164
\150\040\122\157\157\164\104\123\056\160\056\101\056\057\060
\063\063\065\070\065\062\060\071\066\067\061\047\060\045\006\003
\125\004\003\014\036\101\143\164\141\154\151\163\040\101\116\165\164
\150\040\122\157\157\164\104\123\056\160\056\101\056\057\060\063\063\065
\070\065\062\060\071\066\067\061\047\060\045\006\003\125\004\003
END

# Trust for "Actalis Authentication Root CA"
# Issuer: CN=Actalis Authentication Root CA,O=Actalis S.p.A./03358520967,L=Milan,C=IT
# Serial Number:57:0a:11:97:42:c4:e3:cc
# Subject: CN=Actalis Authentication Root CA,O=Actalis S.p.A./03358520967,L=Milan,C=IT
# Not Valid Before: Thu Sep 22 11:22:02 2011
# Not Valid After : Sun Sep 22 11:22:02 2030

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Actalis Authentication Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\363\163\263\207\006\132\050\204\212\362\363\112\316\031\053\335

Open Source Used In Edge Intelligence Edge_1.6  315
# Certificate "Buypass Class 2 Root CA"
# Issuer: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO
# Serial Number: 2 (0x2)
# Subject: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO
# Not Valid Before: Tue Oct 26 08:38:03 2010
# Not Valid After: Fri Oct 26 08:38:03 2040

# CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
# CKA_TOKEN CK_BBOOL CK_TRUE
# CKA_PRIVATE CK_BBOOL CK_FALSE
# CKA_MODIFIABLE CK_BBOOL CK_FALSE
# CKA_LABEL UTF8 "Buypass Class 2 Root CA"
# CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
# CKA_SUBJECT_MULTILINE_OCTAL
# CKA_ISSUER_MULTILINE_OCTAL
# CKA_SERIAL_NUMBER_MULTILINE_OCTAL
# CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
# CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
# CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
# CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

END
# Trust for "Buypass Class 2 Root CA"
# Issuer: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO
# Serial Number: 2 (0x2)
# Subject: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO
# Not Valid Before: Tue Oct 26 08:38:03 2010
# Not Valid After : Fri Oct 26 08:38:03 2040

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Buypass Class 2 Root CA"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\111\012\165\164\336\207\012\107\376\130\356\366\307\153\353\306
\013\022\100\231
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\106\247\322\376\105\373\144\132\250\131\220\233\170\104\233\051
END

CKA_ISSUER MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\116\117\061
\035\060\033\006\003\125\004\012\014\024\010\165\171\160\141\163
\163\040\101\123\055\071\107\063\061\066\063\063\062\067\061\040
\060\036\006\003\125\004\003\014\027\102\165\171\160\141\163
\040\103\154\141\163\163\040\062\040\122\157\157\164\040\103\101
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\002
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Buypass Class 3 Root CA"
# Issuer: CN=Buypass Class 3 Root CA,O=Buypass AS-983163327,C=NO
# Serial Number: 2 (0x2)
# Subject: CN=Buypass Class 3 Root CA,O=Buypass AS-983163327,C=NO
# Not Valid Before: Tue Oct 26 08:28:58 2010
# Not Valid After : Fri Oct 26 08:28:58 2040
# Certificate "T-TeleSec GlobalRoot Class 3"

# Issuer: CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE
# Serial Number: 1 (0x1)
# Subject: CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE
# Not Valid After : Sat Oct 01 23:59:59 2033

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "T-TeleSec GlobalRoot Class 3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\020\202\061\013\060\011\006\003\125\004\006\023\002\104\105
\061\053\060\051\006\003\125\004\012\014\042\124\055\123\171\163
\164\145\155\163\040\105\156\164\145\162\161\162\151\163\145\040
\123\145\162\166\151\143\145\163\040\107\155\142\110\061\103\060
\035\006\003\125\004\013\014\026\124\055\123\171\163\164\145\155
\163\040\124\162\165\163\164\040\103\145\156\164\145\162\061\045
\060\043\006\003\125\004\003\014\034\124\055\124\145\154\145\123
\145\143\040\107\154\157\142\141\154\122\157\157\164\040\103\154
\141\163\163\040\063

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\002
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Trust for "T-TeleSec GlobalRoot Class 3"

Issuer: CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE

Serial Number: 1 (0x1)

Subject: CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE


Not Valid After : Sat Oct 01 23:59:59 2033


END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "T-TeleSec GlobalRoot Class 3"

END

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\125\246\162\076\313\362\354\315\303\043\164\160\031\123\502\276
\021\343\201\321

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\312\373\100\250\116\071\122\212\035\376\216\057\304\047\352\357

END

CKA_ISSUER MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\104\105
\061\053\060\051\006\003\125\004\012\014\024\124\055\123\171\163

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\164\145\155\163\040\105\142\110\061\037\060\035\006\003\125\004\013\014\026\124\055\123\171\163\164\145\155
\163\040\124\162\165\163\164\040\035\145\156\164\145\162\061\045
\060\043\060\035\012\004\034\124\055\124\145\145\154\145\123
\145\143\040\107\154\157\142\141\154\122\157\157\164\040\035\154
\141\163\163\040\063
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Explicitly Distrust "TURKTRUST Mis-issued Intermediate CA 1", Bug 825022
# Issuer: O=T..RKTRUST Bilgi ..leti..im ve Bili..im G..venli..i Hizmetleri A...,C=TR,CN=T..RKTRUST Elektronik
# Serial Number: 2087 (0x827)
# Subject: CN=*.EGO.GOV.TR,OU=EGO BILGI ISLEM,O=EGO,L=ANKARA,ST=ANKARA,C=TR
# Not Valid Before: Mon Aug 08 07:07:51 2011
# Not Valid After : Tue Jul 06 07:07:51 2021

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\001
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_NOT_TRUSTED
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Open Source Used In Edge Intelligence Edge_1.6 326
# Explicitly Distrust "TURKTRUST Mis-issued Intermediate CA 2", Bug 825022
# Issuer: C=TR,CN=T.RKTRUST Elektronik Sunucu Sertifikasi.. Hizmetleri
# Serial Number: 2148 (0x864)
# Subject: E=iletii@kkctmerkezbankasi.org, CN=e-islem.kktcmerkezbankasi.org, O=KKTC Merkez Bankasi, L=Lefkosa, ST=Lefkosa, C=TR
# Not Valid Before: Mon Aug 08 07:07:51 2011
# Not Valid After : Thu Aug 05 07:07:51 2021

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TURKTRUST Mis-issued Intermediate CA 2"

# Certificate "D-TRUST Root Class 3 CA 2009"
# Issuer: CN=D-TRUST Root Class 3 CA 2 2009, O=D-Trust GmbH, C=DE
# Serial Number: 623603 (0x983f3)
# Subject: CN=D-TRUST Root Class 3 CA 2 2009, O=D-Trust GmbH, C=DE
# Not Valid Before: Thu Nov 05 08:35:58 2009
# Not Valid After : Mon Nov 05 08:35:58 2029

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root Class 3 CA 2 2009"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\003\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\11\006\104\060\045\006\003\125\004\003\014
\036\104\055\124\122\125\123\124\012\122\157\157\164\040\103\015
\141\163\163\040\060\304\010\301\014\060\062\040\062\060\060\071
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\003\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\11\006\104\060\045\006\003\125\004\003\014
\036\104\055\124\122\125\123\124\012\122\157\157\164\040\103\015
\141\163\163\040\060\304\010\301\014\060\062\040\062\060\060\071
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\011\203\363

END

CKA_VALUE MULTILINE_OCTAL
\060\202\004\063\060\202\003\033\240\003\002\001\002\002\003\011
\203\063\060\015\006\011\105\220\061\102\063\067\015\001\001\013\005
\000\060\115\061\103\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\163\164\040\010\107\155\142\11\006\104\060\045\006\003\125\004\003\014
\014\036\104\055\124\122\125\123\124\012\122\157\157\164\040\103\013
\154\114\163\163\040\060\304\010\301\014\060\062\040\062\060\060\071
\060\060\036\027\015\060\071\016\101\060\065\060\070\063\065\065\070
\013\027\015\062\071\016\101\060\065\060\070\063\065\065\070\013
\060\011\155\061\103\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\11\006\104\060\045\006\003\125\004\003\014
\036\104\055\124\122\125\123\124\012\122\157\157\164\040\103\015
\141\163\163\040\060\304\010\301\014\060\062\040\062\060\060\071
\020\001\042\060\150\060\011\052\206\110\206\036\150\250\340\003\021\035\067
\120\010\237\115\112\150\224\065\263\123\321\224\143\247\004\012
\257\336\121\170\354\052\075\363\110\110\120\076\012\337\106\125
\121\047\155\303\020\115\015\221\122\103\300\207\340\135\116\066
\265\041\312\137\071\010\000\004\137\133\176\142\243\306\053\251\100
# Trust for "D-TRUST Root Class 3 CA 2 2009"
# Issuer: CN=D-TRUST Root Class 3 CA 2 2009,O=D-Trust GmbH,C=DE
# Serial Number: 623603 (0x983f3)
# Subject: CN=D-TRUST Root Class 3 CA 2 2009,O=D-Trust GmbH,C=DE
# Not Valid Before: Thu Nov 05 08:35:58 2009
# Not Valid After : Mon Nov 05 08:35:58 2029

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root Class 3 CA 2 2009"

CKA_CSR SHA1_HASH MULTILINE_OCTAL
\130\350\253\260\066\025\063\373\200\367\233\033\155\051\323\377
\215\137\000\360
END

# Certificate "D-TRUST Root Class 3 CA 2 EV 2009"
# Issuer: CN=D-TRUST Root Class 3 CA 2 EV 2009,O=D-Trust GmbH,C=DE
# Serial Number: 623604 (0x983f4)
# Subject: CN=D-TRUST Root Class 3 CA 2 EV 2009,O=D-Trust GmbH,C=DE
# Not Valid Before: Thu Nov 05 08:50:46 2009
# Not Valid After : Mon Nov 05 08:50:46 2029
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root Class 3 CA 2 EV 2009"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\120\061\013\060\001\11\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\014\055\124\162\165\163
\164\040\107\155\142\11\006\015\052\060\050\006\003\125\004\003\014
\041\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\040\063\040\103\101\040\062\040\015\126\040\062\060
\060\071
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\120\061\013\060\001\11\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\014\055\124\162\165\163
\164\040\107\155\142\11\006\015\052\060\050\006\003\125\004\003\014
\041\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\040\063\040\103\101\040\062\040\015\126\040\062\060
\060\071
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\011\203\364
END

CKA_VALUE MULTILINE_OCTAL
\060\020\004\103\030\060\020\003\053\240\003\002\001\002\002\003\011
\203\364\060\015\052\206\110\206\367\015\001\001\013\005
\000\060\120\061\013\060\011\006\003\125\004\006\023\002\104\105
\061\025\060\023\006\003\125\004\012\014\014\014\055\124\162\165
\163\164\040\107\155\142\11\006\015\052\060\050\006\003\125\004\003\014
\014\040\110\055\124\122\125\123\124\040\122\157\157\164\040\103
\154\141\163\163\040\063\040\103\101\040\062\040\015\126\040\062\062
\060\060\071\060\036\027\015\060\071\061\060\065\060\070\065\060
\060\064\060\015\062\071\061\060\065\060\070\065\060
\060\040\132\060\012\060\210\013\106\011\006\003\125\004\006\023\002
\104\105\061\025\060\023\006\003\125\004\012\014\014\104\055\124
\162\165\163\164\040\107\155\142\11\006\015\052\060\050\006\003\125
\000\040\014\040\110\055\124\122\125\123\124\040\122\157\157\164
\040\103\154\141\116\13\040\063\040\103\101\040\062\040\015\126
\040\062\060\060\071\060\020\001\042\060\015\006\011\052\206\110
\206\036\071\150\001\000\010\005\000\032\020\001\17\000\060\202\001
\012\002\020\001\001\000\23\361\120\064\160\272\057\267\060\240
\121\627\174\040\317\276\142\274\231\375\202\227\322\172\012\147
\226\070\011\366\020\116\225\042\163\231\215\332\025\055\347\005
\374\031\163\042\267\216\230\000\274\074\075\254\241\154\373\326
\171\045\113\255\360\014\144\332\210\076\051\270\017\011\323\064
# Trust for "D-TRUST Root Class 3 CA 2 EV 2009"
# Issuer: CN=D-TRUST Root Class 3 CA 2 EV 2009,O=D-Trust GmbH,C=DE
# Serial Number: 623604 (0x983f4)
# Subject: CN=D-TRUST Root Class 3 CA 2 EV 2009,O=D-Trust GmbH,C=DE
# Not Valid Before: Thu Nov 05 08:50:46 2009
# Not Valid After : Mon Nov 05 08:50:46 2029

# Certificate "CA Disig Root R2"
# Issuer: CN=CA Disig Root R2,O=Disig a.s.,L=Bratislava,C=SK
# Serial Number:00:92:b8:88:db:b0:8:ac:1:63
# Subject: CN=CA Disig Root R2,O=Disig a.s.,L=Bratislava,C=SK
# Not Valid Before: Thu Jul 19 09:15:30 2012
# Not Valid After: Sat Jul 19 09:15:30 2042

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CA Disig Root R2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\122\061\130\060\011\006\003\125\004\006\023\002\123\113\061
\023\060\021\006\003\125\004\007\023\012\102\162\141\164\151\163
\154\141\166\141\061\023\060\021\006\003\125\004\012\023\012\104
\151\163\151\147\040\141\056\163\056\061\031\060\027\006\003\125
\004\003\023\020\013\01\040\04\151\163\151\147\040\122\157\157
\164\040\122\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\122\061\130\060\011\006\003\125\004\006\023\002\123\113\061
\023\060\021\006\003\125\004\007\023\012\102\162\141\164\151\163
\154\141\166\141\061\023\060\021\006\003\125\004\012\023\012\104
\151\163\151\147\040\141\056\163\056\061\031\060\027\006\003\125
\004\003\023\020\013\01\040\04\151\163\151\147\040\122\157\157
\164\040\122\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\222\270\210\333\260\212\301\143
END
CKA_VALUE MULTILINE_OCTAL
\060\02\00\05\151\060\202\003\121\240\003\002\001\002\002\011\010000
\222\270\210\333\260\212\301\143\060\015\006\011\052\206\110\206
\367\015\001\013\001\000\060\226\013\060\011\006\003\125
\040\002\023\021\012\113\130\012\03\023\060\021\006\003\125
\004\007\023\012\102\162\141\164\151\163
\012\101\02\162\141\164\151\163\154\141\166\141\061\023\060\021\006
\003\025\004\012\023\012\104\151\163\151\147\040\141\056\163\056
\061\031\060\027\006\003\125\004\003\023\020\013\01\040\04\151\151
\163\147\040\122\157\157\164\040\122\062\060\036\027\015\061
\062\060\067\061\071\060\071\061\065\063\060\013\027\015\064\062
\060\067\061\071\060\071\061\065\063\060\013\027\015\064\062
\060\067\061\071\060\071\061\065\063\060\013\027\015\064\062
\011\006\003\125\004\006\023\020\012\133\113\061\023\060\021\006
\125\004\007\023\012\102\162\141\164\151\163\154\141\166\141\061
\023\060\021\006\003\125\004\012\023\012\104\151\163\151\147\040
\141\056\163\056\061\031\060\027\006\003\125\004\003\023\020\013
\01\040\141\163\151\147\040\122\157\157\164\040\122\062\060
\02\02\02\01\150\006\011\052\206\110\206\367\015\001\001
\005\000\003\202\002\017\000\060\020\020\012\020\020\010\000
\242\243\304\000\011\326\205\135\055\155\024\366\302\303\163\236
# Trust for "CA Disig Root R2"
# Issuer: CN=CA Disig Root R2,O=Disig a.s.,L=Bratislava,C=SK
# Serial Number:00:92:b8:88:db:b0:8a:c1:63
# Subject: CN=CA Disig Root R2,O=Disig a.s.,L=Bratislava,C=SK
# Not Valid Before: Thu Jul 19 09:15:30 2012
# Not Valid After : Sat Jul 19 09:15:30 2042

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CA Disig Root R2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL \265\141\353\352\244\336\344\045\113\151\032\223\025\127\107\302 \064\037\331\161
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL \046\001\373\330\047\247\027\232\105\124\070\032\103\001\073\003
END
CKA_ISSUER MULTILINE_OCTAL \060\122\061\013\060\001\1\006\003\125\004\006\023\002\123\113\061
# Certificate "ACCVRAIZ1"

# Issuer: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1
# Serial Number:5e:c3:b7:a6:43:7f:a4:e0
# Subject: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1
# Not Valid Before: Thu May 05 09:37:37 2011
# Not Valid After : Tue Dec 31 09:37:37 2030

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ACCVRAIZ1"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\023\060\021\006\003\125\004\007\023\012\102\162\141\164\151\163
\154\141\166\141\061\023\060\021\006\003\125\004\012\023\012\104
\151\163\151\147\040\141\105\163\056\061\031\106\027\006\003\125
\004\003\023\020\103\011\040\104\151\163\151\147\040\122\157\157
\164\040\122\062

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\222\270\210\333\260\212\301\143

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
Open Source Used In Edge Intelligence Edge_1.6 339
END

# CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
# CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
# CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "ACCVRAIZ1"
# Issuer: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1
# Serial Number:5e:c3:b7:a6:43:7f:a4:e0
# Subject: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1
# Not Valid Before: Thu May 05 09:37:37 2011
# Not Valid After : Tue Dec 31 09:37:37 2030
# CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
# CKA_TOKEN CK_BBOOL CK_TRUE
# CKA_PRIVATE CK_BBOOL CK_FALSE
# CKA_MODIFIABLE CK_BBOOL CK_FALSE
# Certificate "TWCA Global Root CA"
#
# Issuer: CN=TWCA Global Root CA,OU=Root CA,O=TAIWAN-CA,C=TW
# Serial Number: 3262 (0xcbe)
# Subject: CN=TWCA Global Root CA,OU=Root CA,O=TAIWAN-CA,C=TW
# Not Valid After : Tue Dec 31 15:59:59 2030
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TWCA Global Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\121\061\101\013\060\001\11\006\003\023\125\004\006\023\002\124\127\061
\022\060\020\006\003\125\004\012\023\011\112\127\011\111\055\103\101\061\020\060\016\006\003\125\004\013\023\007\122\157
\157\164\040\013\010\061\034\060\032\006\003\125\004\003\023\023
\124\127\103\101\040\107\154\157\142\141\154\040\122\157\157\164
\040\03\101
END
CKA_ID UTF8 "0"
# Trust for "TWCA Global Root CA"
# Issuer: CN=TWCA Global Root CA,OU=Root CA,O=TAIWAN-CA,C=TW
# Serial Number: 3262 (0xcbe)
# Not Valid After: Tue Dec 31 15:59:59 2030

certificate

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TWCA Global Root CA"

# Certificate "TeliaSonera Root CA v1"

# Issuer: CN=TeliaSonera Root CA v1,O=TeliaSonera
# Subject: CN=TeliaSonera Root CA v1,O=TeliaSonera
# Not Valid Before: Thu Oct 18 12:00:50 2007
# Not Valid After : Mon Oct 18 12:00:50 2032
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TeliaSonera Root CA v1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\067\061\024\060\022\006\003\125\004\012\014\013\124\145\154
\151\141\123\157\156\145\162\141\061\037\060\035\006\003\125\004
\003\014\026\124\145\154\151\141\123\157\156\145\162\141\040\122
\157\157\164\040\103\101\040\166\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\067\061\024\060\022\006\003\125\004\012\014\013\124\145\154
\151\141\123\157\156\145\162\141\061\037\060\035\006\003\125\004
\003\014\026\124\145\154\151\141\123\157\156\145\162\141\040\122
\157\157\164\040\103\101\040\166\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\225\276\026\240\367\056\106\361\173\071\202\162\372
\121\13\15\226
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\070\060\020\003\040\240\003\002\001\002\002\021\000
\225\276\026\240\367\056\106\361\173\071\202\162\372\213\315\226
\060\015\000\060\150\206\102\220\063\015\001\000\005\000\000\060
\067\061\024\060\022\006\003\125\004\012\014\013\124\145\154\151
\141\123\157\156\145\162\141\061\037\060\035\006\003\125\004
\010\042\021\124\145\154\151\141\123\157\156\145\162\141\040\122\157
\157\157\164\040\103\101\040\166\061\060\036\027\015\060\067\061\060
\061\070\060\016\062\060\060\065\060\013\202\027\015\063\062\061\060\061
\070\061\060\062\060\060\065\060\132\060\067\061\024\060\022\006\003
\125\004\012\014\013\124\145\154\151\141\123\157\156\145\162\141
\061\037\060\035\006\003\125\004\003\014\026\021\124\145\154\151
\141\123\157\156\145\162\141\040\122\157
\157\157\164\040\103\101\040\166\061\060\036\027\015\060\067\061\060
\061\070\060\016\062\060\060\065\060\013\202\027\015\063\062\061\060\061
\070\061\060\062\060\060\065\060\132\060\067\061\024\060\022\006\003
\125\004\012\014\013\124\145\154\151\141\123\157\156\145\162\141
\061\037\060\035\006\003\125\004\003\014\026\021\124\145\154\151
\141\123\157\156\145\162\141\040\122\157
\157\157\164\040\103\101\040\166\061\060\036\027\015\060\067\061\060
\061\070\060\016\062\060\060\065\060\013\202\027\015\063\062\061\060\061
\070\061\060\062\060\060\065\060\132\060\067\061\024\060\022\006\003
\221\312\356\105\256\066\113\000\314\323\261\131\120\332\072\210
\073\051\103\016\362\227\053\124\316\123\157\215\112\347\226\032
\277\161\016\102\213\17\347\050\240\320\110\312\332\304\201\114
\273\242\163\223\046\310\353\014\326\046\210\266\300\044\317\273
\275\133\353\165\175\351\010\216\206\063\054\171\167\011\151\245
\211\374\263\160\220\207\166\217\323\042\273\103\316\275\163\013
\040\046\052\320\233\075\160\030\044\154\315\207\166\251\027\226
\267\17\015\222\373\216\030\251\130\111\132\123\367\140\104\162
\041\273\031\355\302\365\061\361\071\110\210\220\044\165\124\026
\255\163\364\370\151\024\144\071\373\243\270\272\160\100\307\047
\034\277\304\126\123\372\143\145\320\363\034\016\026\365\153\206
\130\15\030\324\344\015\216\245\253\133\221\334\166\044\120\077
\306\052\373\331\267\234\265\326\346\320\331\350\031\123\025\161
\110\255\267\352\330\131\121\034\220\277\026\263\331\351\254\131
\141\124\310\034\272\312\301\312\341\271\040\114\217\072\223\211
\245\240\314\277\332\366\165\244\165\226\155\126
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "TeliaSonera Root CA v1"
# Issuer: CN=TeliaSonera Root CA v1,O=TeliaSonera
# Subject: CN=TeliaSonera Root CA v1,O=TeliaSonera
# Not Valid Before: Thu Oct 18 12:00:50 2007
# Not Valid After : Mon Oct 18 12:00:50 2032

# CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TeliaSonera Root CA v1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\103\023\273\226\361\325\206\233\301\116\152\222\366\317\366\064
\151\207\202\067
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\067\101\111\033\030\126\232\046\365\255\302\146\373\100\245\114
END

CKA_ISSUER MULTILINE_OCTAL
\060\067\061\024\060\022\060\003\125\004\012\014\013\124\145\154
\151\141\123\157\156\145\162\141\061\037\060\035\006\003\125\004
\003\014\026\124\145\154\151\141\123\157\156\145\162\141\040\122
\157\157\164\040\013\101\040\166\061
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
# Certificate "E-Tugra Certification Authority"

# Issuer: CN=E-Tugra Certification Authority,OU=E-Tugra Sertifikasyon Merkezi,O=E-Tu...ra EBG Bili...im Teknolojileri ve Hizmetleri A.....L=Ankara,C=TR
# Serial Number:6a:68:3e:9c:51:9b:cb:53
# Subject: CN=E-Tugra Certification Authority,OU=E-Tugra Sertifikasyon Merkezi,O=E-Tu...ra EBG Bili...im Teknolojileri ve Hizmetleri A.....L=Ankara,C=TR
# Not Valid Before: Tue Mar 05 12:09:48 2013
# Not Valid After : Fri Mar 03 12:09:48 2023
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "E-Tugra Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

END
CKA_ID UTF8 "0"

END

CKA_ISSUER MULTILINE_OCTAL
\060\021\262\061\013\006\003\125\004\006\023\002\124\122
\061\017\060\015\125\004\007\014\006\101\156\153\141\162
\141\061\100\060\076\006\003\125\004\012\067\105\055\124\165
\304\237\162\141\040\105\102\107\040\102\151\154\151\305\237\151
\155\040\124\145\153\156\157\154\157\152\151\154\145\162\151\040
\166\145\040\110\151\172\155\145\164\154\145\162\151\040\101\056
\305\236\056\061\046\060\004\006\003\125\004\013\014\035\105\055
\124\165\147\162\141\040\123\145\162\164\151\146\151\153\141\163
\171\157\156\040\115\145\162\153\145\172\151\061\050\060\046\006
\003\125\004\030\140\037\105\055\124\165\147\162\141\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171

END
# Trust for "E-Tugra Certification Authority"
# Issuer: CN=E-Tugra Certification Authority,OU=E-Tugra Sertifikasyon Merkezi,O=E-Tu..ra EBİ..im Teknolojileri ve Hizmetleri A....,L=Ankara,C=TR
# Serial Number:6a:68:3e:9c:51:9b:cb:53
# Subject: CN=E-Tugra Certification Authority,OU=E-Tugra Sertifikasyon Merkezi,O=E-Tu..ra EBİ..im Teknolojileri ve Hizmetleri A....,L=Ankara,C=TR
# Not Valid Before: Tue Mar 05 12:09:48 2013
# Not Valid After : Fri Mar 03 12:09:48 2023

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "E-Tugra Certification Authority"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\126\374\077\264\235\332\160\234\166\132\214\103\120\356\216\060
\162\115\337\377\111\136\367\306\251\147\331\155\254\002\021\342\072
\026\045\247\130\010\313\157\123\012\341\110\070\107\150\063\321
\327\307\121\173\241\64\041\324\303\005\220\172\377\316\226\210\261
\025\051\113\354\032\323\014\021\022\117\336\364\027\315\062\345
\311\277\310\103\255\375\065\216\361\257\342\364\230\372\022\037
\040\330\300\247\014\205\305\220\364\073\055\226\046\261\054\276
\114\253\353\261\322\123\111\333\170\002\170\036\011\235\155\217
\000\023\032\230\017\327\012\172\172\111\304\112\236\210\052\227
\237\211\021\137\067\137\072\316\070\013\206\113\357\161\103
\264\330\362\160\117\237\062\023\343\260\247\127\345\332\332\103
\313\204\063\362\050\304\352\155\364\052\357\301\153\166\332\373
\176\273\205\074\322\123\302\115\276\161\134\105\321\375\043\047
\015\023\165\373\317\145\147\042\235\256\260\011\321\011\377\035
\064\277\376\043\227\067\322\071\372\075\015\006\013\264\013\073
\243\253\157\134\035\266\176\350\263\202\064\355\006\134\044

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
Open Source Used In Edge Intelligence

# Certificate "T-TeleSec GlobalRoot Class 2"
#
# Issuer: CN=T-TeleSec GlobalRoot Class 2,OU=T-Systems Trust Center, O=T-Systems Enterprise Services GmbH, C=DE
# Serial Number: 1 (0x1)
# Subject: CN=T-TeleSec GlobalRoot Class 2, OU=T-Systems Trust Center, O=T-Systems Enterprise Services GmbH, C=DE
# Not Valid After: Sat Oct 01 23:59:59 2033
# Fingerprint (MD5): 2B:9B:9E:E4:7B:6C:1F:00:72:1A:CC:C1:77:79:DF:6A

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "T-TeleSec GlobalRoot Class 2"
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
# Trust for "T-TeleSec GlobalRoot Class 2"
# Issuer: CN=T-TeleSec GlobalRoot Class 2,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE
# Serial Number: 1 (0x1)
# Subject: CN=T-TeleSec GlobalRoot Class 2,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE
# Not Valid After: Sat Oct 01 23:59:59 2033
# Fingerprint (MD5): 2B:9B:9E:E4:7B:6C:1F:00:72:1A:CC:C1:77:79:DF:6A

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "T-TeleSec GlobalRoot Class 2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
# Certificate "Atos TrustedRoot 2011"
#
# Issuer: C=DE,O=Atos,CN=Atos TrustedRoot 2011
# Serial Number:5c:33:cb:62:2c:5f:b3:32
# Subject: C=DE,O=Atos,CN=Atos TrustedRoot 2011
# Not Valid Before: Thu Jul 07 14:58:30 2011
# Not Valid After : Tue Dec 31 23:59:59 2030

cka_class=CK_OBJECT_CLASS
cka_token=CK_BBOOL
cka_private=CK_FALSE
cka_modifiable=CK_FALSE
cka_label=UTF8 "Atos TrustedRoot 2011"
cka_certificate_type=CK_CERTIFICATE_TYPE
cka_subject=MULTILINE_OCTAL
cka_serial_number=0020001001
cka_trust_server_auth=CK_TRUST
cka_trust_email_protection=CK_TRUST
cka_trust_code_signing=CK_TRUST
cka_trust_step_up_approved=CK_TRUE
cka_private=CK_FALSE
cka_modifiable=CK_FALSE
cka_label=UTF8 "Atos TrustedRoot 2011"
cka_certificate_type=CK_CERTIFICATE_TYPE
cka_subject=MULTILINE_OCTAL
cka_serial_number=0020001001
cka_trust_server_auth=CK_TRUST
cka_trust_email_protection=CK_TRUST
cka_trust_code_signing=CK_TRUST
cka_trust_step_up_approved=CK_TRUE
Open Source Used In Edge Intelligence Edge_1.6 357

# Trust for "Atos TrustedRoot 2011"
# Issuer: C=DE,O=Atos,CN=Atos TrustedRoot 2011
# Serial Number:5c:33:cb:62:2c:5f:b3:32
# Subject: C=DE,O=Atos,CN=Atos TrustedRoot 2011
# Not Valid Before: Thu Jul 07 14:58:30 2011
# Not Valid After : Tue Dec 31 23:59:59 2030

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Atos TrustedRoot 2011"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

CKA_CERT_MD5_HASH MULTILINE_OCTAL

CKA_ISSUER MULTILINE_OCTAL

END

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Atos TrustedRoot 2011"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

CKA_CERT_MD5_HASH MULTILINE_OCTAL

CKA_ISSUER MULTILINE_OCTAL

END
# Certificate "QuoVadis Root CA 1 G3"

# Issuer: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM
# Subject: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 17:27:44 2012
# Not Valid After: Sun Jan 12 17:27:44 2042
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 1 G3"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\002\010\134\063\313\142\054\137\263\062\002\010\134\063\313\065\141\050\265\226\324\145\223

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\002\010\134\063\313\142\054\137\263\062\002\010\134\063\313\065\141\050\265\226\324\145\223

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\134\063\313\142\054\137\263\062\002\010\134\063\313\065\141\050\265\226\324\145\223

END
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for “QuoVadis Root CA 1 G3”
# Issuer: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM
# Subject: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 17:27:44 2012
# Not Valid After : Sun Jan 12 17:27:44 2042
# Fingerprint (SHA-256):
# Fingerprint (SHA1):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 1 G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
033216352127222605103231107135227001201032163163
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\244\274\133\077\376\067\232\144\360\342\372\005\075\013\253
END
CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\002\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003\125\004\003\023\025\121\165\157\126\141\144\144\151\163\040\122\157
\157\164\040\103\101\040\061\040\070\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\170\130\137\056\255\054\031\113\343\067\007\065\064\023
\050\265\226\324\145\223
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "QuoVadis Root CA 2 G3"
#
# Issuer: CN=QuoVadis Root CA 2 G3,O=QuoVadis Limited,C=BM
# Subject: CN=QuoVadis Root CA 2 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 18:59:32 2012
# Not Valid After : Sun Jan 12 18:59:32 2042
# Fingerprint (SHA-256):
# Fingerprint (SHA1):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 2 G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

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# Trust for "QuoVadis Root CA 2 G3"
# Issuer: CN=QuoVadis Root CA 2 G3,O=QuoVadis Limited,C=BM
# Subject: CN=QuoVadis Root CA 2 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 18:59:32 2012
# Not Valid After : Sun Jan 12 18:59:32 2042

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 2 G3"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\011\074\141\363\213\213\334\175\023\023\006\003\125\004\003\023\025\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\062\040\107\063

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\257\014\206\156\277\100\055\177\013\076\022\120\272\022\075\006

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "QuoVadis Root CA 3 G3"
#
# Issuer: CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM
# Serial Number:2e:f5:9b:02:28:a7:7a:af:5a:3a:9e:8e:0d:3a:0:f:12:6a:1d
# Subject: CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 20:26:32 2012
# Not Valid After: Sun Jan 12 20:26:32 2042
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 3 G3"

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

CKA_VALUE MULTILINE_OCTAL

END
\202\001\000\006\047\141\331\126\265\022\207\125\115\335\243\065
\061\106\273\244\007\162\274\137\114\123\350\245\373\013\067\261
\074\266\263\372\051\123\51\177\002\365\244\311\125\223\267\172\161
\050\151\121\163\341\122\220\323\252\276\072\345\267\166\152\126
\200\041\133\175\135\346\351\107\236\345\076\366\242\151\130\070\052\012
\260\030\107\334\040\160\175\122\243\076\131\174\301\272\331\131\10
\025\100\141\132\162\326\160\254\322\267\360\034\344\206\051\360
\316\357\150\143\320\265\050\040\212\025\141\123\176\202\123\364\311
\302\166\373\314\272\060\026\314\243\141\130\164\040\233\45\353\357
\243\025\352\003\037\062\023\13\144\344\323\301\132\250\024\373\111
\321\020\115\171\146\353\252\375\364\215\061\036\160\024\255\334
\336\147\023\114\201\025\141\274\267\331\122\167\161\031\201\140
\273\360\130\245\265\234\013\136\217\042\125\047\300\113\001\155
\073\231\105\153\240\035\233\143\147\057\320\356\015\312\146\274\222
\117\246\255\355\374\356\143\254\127\077\145\045\317\262\206\217
\320\010\377\270\166\020\145\163\365\043\047\354\253\170\265\123\271
\266\073\350\040\371\312\225\250\276\114\106\312\207\214\204\363\371
\361\240\150\233\042\036\201\010\046\233\020\004\221\161\130\006\037
\334\240\323\271\112\247\343\323\055\177\203\235\377\124\053\234
\062\216\062\224\360\001\017\404\042\052\237\103\302\056\303\230\001
\007\070\173\374\136\000\102\037\363\062\046\171\023\124\360\345
\360\301\121\022\300\013\036\004\043\014\124\245\114\057\111\035
\112\231\266\156\140\100\151\373\153\213\120\044\144\267\211\016
\253\045\107\133\074\317\176\111\127\253\037\51\123\306\332\367\176
\101\260\010\133\211\022\329\016\122\360\017\070\076\064\152\034
\175\330\362\042\256\273\151\364\063\264\246\110\125\321\017\016
\046\353\035\246\013\055\247\205\065\315\375\131\310\237\372\213\15
\076\132\051\064\271\075\320\043\162\261\145\324\131\221\222\121\266\165
\041\301\167\236\037\117\234\140\235\323\255\004\030\364\174\353
\136\223\217\123\112\042\051\370\100\053\076\115\206\254\133\177
\313\006\231\111\043\330\130\145\252\215\104\321\367\177\176\047
\177\175\256\200\365\007\114\266\076\234\161\124\231\004\113\375
\130\371\230\364
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "QuoVadis Root CA 3 G3"
# Issuer: CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM
# Subject: CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 20:26:32 2012
# Not Valid After : Sun Jan 12 20:26:32 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 3 G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\110\022\275\222\074\006\347\060\155\047\226\346\244
\317\042\056\175
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\337\175\271\255\124\157\150\241\337\211\127\003\227\103\260\327
END
CKA_ISSUER MULTILINE_OCTAL
\060\110\061\103\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\006\304\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\056\365\233\002\050\247\333\172\377\325\243\251\356\275
\003\240\317\022\152\035
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "DigiCert Assured ID Root G2"
#
# Issuer: CN=DigiCert Assured ID Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Assured ID Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Assured ID Root G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\102\125\123\061
\025\060\023\006\003\125\004\012\023\014\041\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
# Trust for "DigiCert Assured ID Root G2"
# Issuer: CN=DigiCert Assured ID Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Assured ID Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
# Certificate "DigiCert Assured ID Root G3"

# Issuer: CN=DigiCert Assured ID Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Assured ID Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038

# Certificate "DigiCert Assured ID Root G3"

# Issuer: CN=DigiCert Assured ID Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Assured ID Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038

# Certificate "DigiCert Assured ID Root G3"

# Issuer: CN=DigiCert Assured ID Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Assured ID Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "DigiCert Assured ID Root G3"
# Issuer: CN=DigiCert Assured ID Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Assured ID Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After: Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Assured ID Root G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "DigiCert Global Root G2"
# Issuer: CN=DigiCert Global Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Global Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Global Root G2"
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\141\060\101\036\000\125\004\000\023\000\020\123\123\061\025\060\023\000\003\125\004\012\023\014\104\151\147\151\033\145\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023\020\167\167\167\056\144\141\145\162\164\056\143\157\155\061\040\060\003\125\004\003\023\027\104\151\147\151\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\003\072\361\346\247\021\125\124\027\050\144\261\035\011
\372\345
END
CKA_VALUE MULTILINE_OCTAL
\060\020\003\026\136\346\247\021\125\124\027\050\144\261\035\011
\372\345
END
# Trust for "DigiCert Global Root G2"
# Issuer: CN=DigiCert Global Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Global Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):
CAK_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CAK_TOKEN CK_BBOOL CK_TRUE
CAK_PRIVATE CK_BBOOL CK_FALSE
CAK_MODIFIABLE CK_BBOOL CK_FALSE
CAK_LABEL UTF8 "DigiCert Global Root G2"
CAK_CERT_SHA1_HASH MULTILINE_OCTAL
\337\074\044\371\277\326\146\166\033\046\200\163\376\006\321\314
\215\117\202\244
CAK_CERT_MD5_HASH MULTILINE_OCTAL
\344\246\212\310\124\254\122\102\106\012\375\162\110\033\052\010
CAK_ISSUER_MULTILINE_OCTAL
\060\141\061\103\060\011\000\003\125\004\006\023\002\025\123\061
\025\060\023\006\003\125\004\012\023\014\010\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\003\060\144\012\150\004\003\023\027\104\151\147\151
\03\145\162\164\040\107\154\157\142\141\154\040\123\157\157\164
\040\107\062
CAK_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\000\03\072\361\134\247\021\251\240\273\050\144\261\035\011
\372\345
CAK_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CAK_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
# Certificate "DigiCert Global Root G3"

# Issuer: CN=DigiCert Global Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Global Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After: Fri Jan 15 12:00:00 2038

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Global Root G3"

CKA_SUBJECT MULTILINE_OCTAL
\060\141\061\133\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\036\006\003\125\004\003\023\027\014\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\107\063

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\141\061\133\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\036\006\003\125\004\003\023\027\014\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\107\063

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\000\05\125\126\274\362\136\244\065\065\303\244\017\325\253
\105\162

CKA_VALUE MULTILINE_OCTAL
\060\023\002\077\060\020\001\130\240\003\002\001\100\020\020\005
\125\126\274\362\136\244\065\065\303\244\017\325\253\105\162\060
\012\006\010\052\206\110\167\075\004\003\003\060\141\061\103\060
\011\006\003\125\004\006\023\002\125\123\061\025\060\023\006\003
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "DigiCert Global Root G3"
# Issuer: CN=DigiCert Global Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Global Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
# Certificate "DigiCert Trusted Root G4"

# Issuer: CN=DigiCert Trusted Root G4,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Trusted Root G4,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038

CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Trusted Root G4"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL \176\004\336\211\152\076\146\155\000\346\207\323\077\372\331\073 \350\075\064\236
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL \365\135\244\120\245\373\050\176\036\017\015\314\226\127\126\012
END
CKA_ISSUER MULTILINE_OCTAL \060\141\061\013\060\011\006\003\125\004\006\023\002\125\123\061 \025\060\023\006\003\125\004\012\023\014\044\151\151\103\145 \162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023 \020\167\167\167\144\151\147\151\143\145\162\164\056\143\157 \15\506\040\060\036\006\003\125\004\003\023\027\104\151\147\151 \103\145\162\164\040\107\154\015\157\012\141\154\040\122\157\157\164 \040\017\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\020\005\125\126\274\362\136\244\065\065\030\244\017\325\253 \105\162
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\011\111\156\143\060\013\060\027\006\003\125\004\013\023
\020\167\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\041\060\037\060\003\125\004\003\023\030\014\151\147\151\103\145
\103\145\162\164\040\124\162\165\163\164\145\144\040\122\157\157
\164\040\107\064
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\142\061\013\060\011\100\011\000\031\125\004\006\023\002\125\123\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\011\111\156\143\060\013\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\041\060\037\060\003\125\004\003\023\030\014\151\147\151
\103\145\162\164\040\124\162\165\163\164\145\144\040\122\157\157
\164\040\107\064
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\000\05\233\033\127\236\216\041\062\342\071\007\125\247\167\165\134\060
\015\006\011\052\206\110\206\367\015\001\001\014\005\000\060\142
\061\103\060\011\100\060\031\125\004\006\023\002\125\123\061\025\060
\023\006\003\125\004\012\023\014\104\151\147\151\103\145\162\164
\040\11\156\143\060\103\106\027\006\003\125\004\013\023\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157\155\061
\041\060\037\060\003\125\004\003\023\030\014\151\147\151\103\145
\162\164\040\011\124\162\165\163\164\145\144\040\122\157\157\164\040
\107\064\060\036\027\015\061\063\060\070\060\061\061\062\060\060
\060\060\132\027\015\063\070\060\061\065\061\062\060\060\060
\060\060\132\061\013\060\011\010\060\031\125\004\006\023\002\125\061
\123\061\025\060\023\060\003\125\004\012\023\014\104\151\147\151
\103\145\162\164\040\011\115\143\061\013\060\027\006\003\125\004
\013\020\020\016\167\167\056\144\151\147\151\143\145\162\164\056
\143\157\155\061\041\106\037\060\003\125\004\003\023\030\014\151
\147\151\103\145\162\164\040\124\162\165\163\164\145\144\040\122
\157\157\164\040\017\064\060\020\022\042\060\015\006\011\052\026
\110\206\367\015\001\001\001\005\000\003\202\002\017\000\006\020
\002\020\020\020\020\000\000\273\346\220\163\150\036\273\344\135
\112\074\060\042\060\151\063\354\302\247\054\056\311\041\075\362
\212\330\131\032\341\015\124\075\130\253\166\232\315\256\173\033
\204\153\049\060\037\363\033\244\070\026\353\126\306\227\155\035
\253\062\171\162\312\021\321\343\137\326\005\074\122\017\122\037
\306\236\025\245\176\276\237\251\127\026\131\112\162\257\150\023
\160\030\262\272\165\131\152\163\062\224\321\020\040\020\056\0337
# Trust for "DigiCert Trusted Root G4"

# Issuer: CN=DigiCert Trusted Root G4,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Trusted Root G4,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Trusted Root G4"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\335\373\026\315\111\061\131\163\242\003\175\227\310\072\115\175\167\135\005\344

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\170\362\247\140\037\057\264\135\111\067\272\123\056\165\111

END

CKA_ISSUER.Multiline.OCTAL
\060\142\061\103\060\011\006\003\125\004\006\023\002\125\123\061\025\060\023\006\003\125\004\012\023\141\104\151\147\151\103\145\162\164\040\111\156\143\061\103\060\027\006\003\125\004\013\023\020\167\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157\155\061\041\060\037\006\003\125\004\003\023\030\104\151\147\151
"Certificate "COMODO RSA Certification Authority"

# Issuer: CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Subject: CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Tue Jan 19 00:00:00 2010
# Not Valid After : Mon Jan 18 23:59:59 2038
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO RSA Certification Authority"

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\020\025\060\013\060\011\006\003\125\004\006\023\002\107\102
\061\033\060\031\006\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117
\104\010\101\040\114\151\155\151\164\145\144\061\053\060\051\006
\003\125\004\003\023\042\103\117\115\117\104\117\040\122\123\101
\104\010\135\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\020\025\061\013\060\011\006\003\125\004\006\023\002\107\102
\061\033\060\031\006\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117
\104\010\101\040\114\151\155\151\164\145\144\061\053\060\051\006
\003\125\004\003\023\042\103\117\115\117\104\117\040\122\123\101
\104\010\135\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for “COMODO RSA Certification Authority”
# Issuer: CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Serial Number:4c:aa:f9:ca:db:63:6f:e0:1f:f7:4e;03:86:9d
# Subject: CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Tue Jan 19 00:00:00 2010
# Not Valid After : Mon Jan 18 23:59:59 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 “COMODO RSA Certification Authority”
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
# Certificate "USERTrust RSA Certification Authority"

# Issuer: CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Subject: CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Not Valid Before: Mon Feb 01 00:00:00 2010
# Not Valid After : Mon Jan 18 23:59:59 2038
# Fingerprint (SHA-256): 

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_ID UTF8 "0"

END
# Trust for "USERTrust RSA Certification Authority"
# Issuer: CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Subject: CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Not Valid Before: Mon Feb 01 00:00:00 2010
# Not Valid After : Mon Jan 18 23:59:59 2038
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "USERTrust RSA Certification Authority"
CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_LABEL UTF8 "USERTrust RSA Certification Authority"
CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL

definitions:
  \245\233\267\212\220\307\014\007\337\365\211\066\164\062\326\050\301
  \260\260\013\340\234\114\030\034\326\374\343\151\265\107\106\201
  \057\242\202\253\323\143\104\160\030\215\377\055\063\272\255\217
  \173\265\160\210\256\076\031\317\100\050\330\374\310\220\273\135
  \231\042\365\122\346\130\035\037\210\061\103\356\210\035\327\306
  \216\074\103\152\035\247\202\336\175\075\026\361\142\371\032\220
  \250\375
  END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

END
# Certificate "USERTrust ECC Certification Authority"

# Issuer: CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US


# Subject: CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US

# Not Valid Before: Mon Feb 01 00:00:00 2010

# Not Valid After: Mon Jan 18 23:59:59 2038

# Fingerprint (SHA-256):


# Fingerprint (SHA1):


# Certificate "USERTrust ECC Certification Authority"

# Issuer: CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US


# Subject: CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US

# Not Valid Before: Mon Feb 01 00:00:00 2010

# Not Valid After: Mon Jan 18 23:59:59 2038

# Fingerprint (SHA-256):


# Fingerprint (SHA1):

END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTCK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTCK_BBOOL CK_FALSE

# Trust for "USERTrust ECC Certification Authority"
# Issuer: CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Subject: CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Not Valid Before: Mon Feb 01 00:00:00 2010
# Not Valid After : Mon Jan 18 23:59:59 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "USERTrust ECC Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\321\313\312\135\262\325\052\177\151\073\147\115\345\360\035
\014\225\175\360
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\372\150\274\331\265\177\255\375\311\035\006\203\050\314\044\301
END
CKA_ISSUER_MULTILINE_OCTAL
\060\201\121\060\01\103\060\03\125\004\006\023\002\125\123
\061\123\060\021\006\003\125\004\010\023\012\116\145\167\040\112
\145\162\163\145\171\061\024\060\022\006\003\125\004\007\023\013
\112\145\162\163\145\171\040\103\151\164\171\061\036\060\034\006
\003\125\004\012\023\025\124\150\145\040\125\123\105\122\124\122
\125\123\124\040\116\145\164\167\157\162\153\061\056\060\054\006
\003\125\004\003\023\045\125\123\105\122\124\162\165\163\164\040
\105\103\010\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\134\213\231\305\132\224\305\322\161\126\336\315\211\200
\314\046
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
Certificate "GlobalSign ECC Root CA - R5"

Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5
Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5
Not Valid Before: Tue Nov 13 00:00:00 2012
Not Valid After: Tue Jan 19 03:14:07 2038
Fingerprint (SHA-256):
Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign ECC Root CA - R5"

CKA CERTIFICATE_TYPE CK CERTIFICATE_TYPE CKC_X_509

CKA SUBJECT MULTILINE_OCTAL
060120061044060004020060031250004013023033107\1541157
\1421154123151\1471156040105103010304012211571156164
\040103101040055040122065061023060021006003125004
\0120230112\1071541571421141154123151\147156061023060
\02100600312500400302301201071541571421141154123151
\1471156
END

CKA ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
060120061044060004020060031250004013023033107\1541157
\1421154123151\1471156040105103010304012211571156164
\040103101040055040122065061023060021006003125004
\0120230112\1071541571421141154123151\147156061023060
\02100600312500400302301201071541571421141154123151
\1471156
END

CKA SERIAL NUMBER MULTILINE_OCTAL
002021114013111113400460056273125371012167212161371
\1123301154
END

CKA VALUE MULTILINE_OCTAL
060120061044060004020060031250004013023033107\1541157
\1421154123151\1471156040105103010304012211571156164
\040103101040055040122065061023060021006003125004
\0120230112\1071541571421141154123151\147156061023060
\02100600312500400302301201071541571421141154123151
\1471156
END

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### Open Source Used In Edge Intelligence Edge_1.6

#### CKA_NSS_MOZILLA_CA_POLICY
- **CK_BBOOL**: CK_TRUE

#### CKA_NSS_SERVER_DISTRUST_AFTER
- **CK_BBOOL**: CK_FALSE

#### CKA_NSS_EMAIL_DISTRUST_AFTER
- **CK_BBOOL**: CK_FALSE

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# Trust for "GlobalSign ECC Root CA - R5"
- **Issuer**: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5
- **Subject**: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5
- **Not Valid Before**: Tue Nov 13 00:00:00 2012
- **Not Valid After**: Tue Jan 19 03:14:07 2038

#### CKA_CLASS
- **CK_OBJECT_CLASS**: CKO_NSS_TRUST

#### CKA_TOKEN
- **CK_BBOOL**: CK_TRUE
- **CKA_PRIVATE**: CK_FALSE
- **CKA_MODIFIABLE**: CK_FALSE
- **CKA_LABEL UTF8**: "GlobalSign ECC Root CA - R5"
- **CKA_CERT_SHA1_HASH MULTILINE_OCTAL**: 037044130606031524403035704015137725511733351371060720331151252
# Certificate "Staat der Nederlanden Root CA - G3"

# Issuer: CN=Staat der Nederlanden Root CA - G3,O=Staat der Nederlanden,C=NL
# Serial Number: 10003001 (0x98a239)
# Subject: CN=Staat der Nederlanden Root CA - G3,O=Staat der Nederlanden,C=NL
# Not Valid Before: Thu Nov 14 11:28:42 2013
# Not Valid After : Mon Nov 13 23:00:00 2028
# Fingerprint (SHA-256):

END

# Certificate "Staat der Nederlanden Root CA - G3"

# Issuer: CN=Staat der Nederlanden Root CA - G3,O=Staat der Nederlanden,C=NL
# Serial Number: 10003001 (0x98a239)
# Subject: CN=Staat der Nederlanden Root CA - G3,O=Staat der Nederlanden,C=NL
# Not Valid Before: Thu Nov 14 11:28:42 2013
# Not Valid After : Mon Nov 13 23:00:00 2028
# Fingerprint (SHA-256):

END
# Trust for "Staat der Nederlanden Root CA - G3"
# Issuer: CN=Staat der Nederlanden Root CA - G3,O=Staat der Nederlanden,C=NL
# Serial Number: 10003001 (0x98a239)
# Subject: CN=Staat der Nederlanden Root CA - G3,O=Staat der Nederlanden,C=NL
# Not Valid Before: Thu Nov 14 11:28:42 2013
# Not Valid After : Mon Nov 13 23:00:00 2028
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Staat der Nederlanden Root CA - G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\330\353\153\101\121\222\131\340\363\347\205\000\300\075\266\210
\227\311\356\374
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\013\106\147\007\333\020\057\031\124\065\120\140\321\013\364\067
END
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\001\010\060\003\125\002\006\023\002\116\114\061
\036\060\034\006\003\125\004\012\014\025\123\164\141\141\164\040
\141\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061
\053\060\051\006\003\125\004\003\140\042\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\040
\122\157\157\164\040\103\101\040\055\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\000\230\242\071
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# # Certificate "Staat der Nederlanden EV Root CA"
# Trust for "Staat der Nederlanden EV Root CA"
# Issuer: CN=Staat der Nederlanden EV Root CA,O=Staat der Nederlanden,C=NL
# Serial Number: 10000013 (0x98968d)
# Subject: CN=Staat der Nederlanden EV Root CA,O=Staat der Nederlanden,C=NL
# Not Valid Before: Wed Dec 08 11:19:29 2010
# Not Valid After: Thu Dec 08 11:10:28 2022
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Staat der Nederlanden EV Root CA"
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Certificate "IdenTrust Commercial Root CA 1"

# Issuer: CN=IdenTrust Commercial Root CA 1,O=IdenTrust,C=US
# Serial Number:0a:01:42:80:00:00:01:45:23:08:44:bb:50:00:00:02
# Subject: CN=IdenTrust Commercial Root CA 1,O=IdenTrust,C=US
# Not Valid Before: Thu Jan 16 18:12:23 2014
# Not Valid After : Mon Jan 16 18:12:23 2034
# Fingerprint (SHA-256):

DKA_CLASS CK_OBJECT_CLASS CKC_X_509
DKA_TOKEN CK_BBOOL CK_TRUE
DKA_PRIVATE CK_BBOOL CK_FALSE
DKA_MODIFIABLE CK_BBOOL CK_FALSE
DKA_LABEL UTF8 "IdenTrust Commercial Root CA 1"

DKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
DKA_SUBJECT MULTILINE_OCTAL

DKA_SERIAL_NUMBER MULTILINE_OCTAL

DKA_PKCS7 SIGNATURE
DKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
DKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

DKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

DKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Trust for "IdenTrust Commercial Root CA 1"
# Issuer: CN=IdenTrust Commercial Root CA 1,O=IdenTrust,C=US
# Serial Number:0a:01:42:80:00:00:00:1:45:23:c8:44:b5:00:00:00:02
# Subject: CN=IdenTrust Commercial Root CA 1,O=IdenTrust,C=US
# Not Valid Before: Thu Jan 16 18:12:23 2014
# Not Valid After: Mon Jan 16 18:12:23 2034
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "IdenTrust Commercial Root CA 1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\337\161\176\252\112\331\116\311\125\204\231\140:055\110:336\137
\274\360:072:045
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\263:076\167\163\165\356:240\323\343\176\111\143\111\131\273:307
END
CKA_ISSUER MULTILINE_OCTAL
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\000:002
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Subject: CN=IdenTrust Public Sector Root CA 1, O=IdenTrust, C=US
# Not Valid Before: Thu Jan 16 17:53:32 2014
# Not Valid After: Mon Jan 16 17:53:32 2034

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "IdenTrust Public Sector Root CA 1"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

CKA_VALUE MULTILINE_OCTAL

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

CKA_VALUE MULTILINE_OCTAL
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "IdenTrust Public Sector Root CA 1"
END
CKA_ISSUER MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\023\011\111\144\145\156\124\162
\165\163\164\061\025\060\050\006\003\125\004\003\023\041\111\144
\145\156\124\162\165\163\164\040\120\165\142\154\151\143\040\123
\145\143\164\157\162\040\122\157\157\164\040\103\101\040\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\012\001\102\200\000\001\105\043\317\106\174\000\000
\000\002
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
CKA_CERTIFICATE_TYPE CKCERTIFICATE CKCERTIFICATE
CKA_SUBJECT UTF8 "Entrust Root Certification Authority - G2"
CKA_SERIALNUMBER "1246989352 (0x4a538c28)"
CKA_SERIALNUMBER "1246989352 (0x4a538c28)"
END
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority - G2"

\060\115\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\011\111\156\143\056\061\050\060\046\006\003\125\004
\013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165
\163\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162
\155\163\061\071\060\067\006\003\125\004\013\023\060\050\143\035
\040\062\060\060\071\040\105\156\164\162\165\163\164\054\040\111
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\062\060
\060\006\003\125\004\003\023\051\105\156\164\162\165\163\164\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151

Open Source Used In Edge Intelligence Edge_1.6 410
# Trust for "Entrust Root Certification Authority - G2"
# Issuer: CN=Entrust Root Certification Authority - G2,OU="(c) 2009 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc." ,C=US
# Serial Number: 1246989352 (0x4a538c28)
# Subject: CN=Entrust Root Certification Authority - G2,OU="(c) 2009 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc." ,C=US
# Not Valid Before: Tue Jul 07 17:25:54 2009
# Not Valid After : Sat Dec 07 17:55:54 2030
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority - G2"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\214\364\047\375\171\014\072\321\146\006\215\350\036\127\357\273
\223\042\162\324
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\113\342\311\221\226\145\014\364\016\132\223\222\240\012\376\262
END

CKA_ISSUER MULTILINE_OCTAL
\060\201\276\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004
\013\023\037\123\145\149\040\167\167\167\056\145\156\164\162\165
\163\164\056\156\145\149\057\154\145\147\141\154\055\164\145\162
\155\163\060\071\060\067\006\003\125\004\013\023\060\050\143\051
\040\062\060\060\071\040\105\156\164\162\165\163\164\054\040\111
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162
\151\172\145\149\040\165\163\145\040\157\156\154\171\061\062\060
\060\006\003\125\004\003\023\051\105\156\164\162\165\163\164\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\107
\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\112\123\214\050
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Entrust Root Certification Authority - EC1"

# Issuer: CN=Entrust Root Certification Authority - EC1,OU="(c) 2012 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Serial Number:00:a6:8b:79:29:00:00:00:00:50:d0:91:f9
# Subject: CN=Entrust Root Certification Authority - EC1,OU="(c) 2012 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Not Valid Before: Tue Dec 18 15:25:36 2012
# Not Valid After : Fri Dec 18 15:55:36 2037
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority - EC1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\277\061\013\060\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004
\013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165
\163\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162
\155\163\061\071\060\067\006\003\125\004\013\023\060\050\143\051
\040\062\060\061\062\040\105\156\164\162\165\163\164\054\040\111
\156\143\056\040\055\040\146\157\162\040\014\165\164\150\157\162
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\063\060
\061\006\003\125\004\003\023\052\105\156\164\162\165\163\164\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\105
\103\061
END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\277\061\013\060\001\11\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004
\013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165
\163\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162
\155\163\061\071\060\067\006\003\125\004\013\023\060\050\143\051
\040\062\060\061\062\040\105\156\164\162\165\163\164\054\040\111
\156\143\056\040\055\040\146\157\162\040\014\165\164\150\157\162
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\063\060
\061\006\003\125\004\003\023\052\105\156\164\162\165\163\164\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\105
\103\061
"Trust for "Entrust Root Certification Authority - EC1"

# Issuer: CN=Entrust Root Certification Authority - EC1,OU="(c) 2012 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US

# Serial Number:00:a6:8b:79:29:00:00:00:50:d0:91:f9

# Subject: CN=Entrust Root Certification Authority - EC1,OU="(c) 2012 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US

# Not Valid Before: Tue Dec 18 15:25:36 2012
# Not Valid After : Fri Dec 18 15:55:36 2037


CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority - EC1"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

CKA_CERT_MD5_HASH MULTILINE_OCTAL
Certificate "CFCA EV ROOT"

Issuer: CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN

Serial Number: 407555286 (0x184accd6)

Subject: CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN

Not Valid Before: Wed Aug 08 03:07:01 2012

Not Valid After: Mon Dec 31 03:07:01 2029


Certificate Class CK_OBJECT_CLASS CKO_CERTIFICATE

Token CK_BBOOL CK_TRUE

Private CK_BBOOL CK_FALSE

Modifiable CK_BBOOL CK_FALSE

Label UTF8 "CFCA EV ROOT"

Certificate Type CK_CERTIFICATE_TYPE CKC_X_509

Subject Multiline Octal

Issuer Multiline Octal

Serial Number Multiline Octal

Value Multiline Octal

Certificate ID UTF8 "0"

Issuer Multiline Octal

Serial Number Multiline Octal
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OISTE WiSeKey Global Root GB CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\015\055\015\061\013\036\060\011\011\010\006\003\125\004\000\002\023\002\010\03\011\000\061
\020\060\016\006\003\125\004\012\023\007\012\11\11\123\145\113\145
\171\015\002\042\060\004\000\060\003\125\004\013\023\03\011\17\11\123\145\113\145
\105\040\106\157\165\156\144\141\164\151\157\156\040\015\156\144
\157\162\163\145\144\061\050\060\046\006\003\125\004\003\023\03\07
\117\11\11\123\124\105\040\027\11\11\123\145\113\145\171\040\010\07\154
\157\142\141\154\040\122\157\157\164\040\010\102\040\010\03\01
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\015\055\015\061\013\036\060\011\011\010\006\003\125\004\000\002\023\002\010\03\011\000\061
\020\060\016\006\003\125\004\012\023\007\012\11\11\123\145\113\145
\171\015\002\042\060\004\000\060\003\125\004\013\023\03\011\17\11\123\145\113\145
\105\040\106\157\165\156\144\141\164\151\157\156\040\015\156\144
\157\162\163\145\144\061\050\060\046\006\003\125\004\003\023\03\07
\117\11\11\123\124\105\040\027\11\11\123\145\113\145\171\040\010\07\154
\157\142\141\154\040\122\157\157\164\040\010\102\040\010\03\01
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\166\261\040\122\164\160\205\207\106\126\370\043\032\366\302\300
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\265\060\202\002\235\240\003\002\001\002\002\020\166
\261\040\122\164\160\205\207\106\263\370\043\032\366\302\300
\015\006\011\052\206\110\206\367\015\001\013\005\000\060\155
\061\013\060\011\006\003\125\004\006\023\020\010\110\016\102\006\060
\016\006\003\125\004\012\023\007\12\11\11\123\145\113\145\171\061
\042\060\040\000\003\125\004\013\023\03\117\11\11\123\124\105\040
\160\157\165\156\144\141\164\151\157\156\040\015\156\144\157\162
\163\145\144\061\105\050\060\046\006\003\125\004\003\023\03\07\117\111
\123\124\105\040\127\11\11\123\145\113\145\171\040\107\154\157\142
\141\154\040\122\157\157\164\040\010\102\040\010\03\01\060\036\027
\015\061\064\061\060\060\061\106\105\060\060\060\063\062\132\207\15
\063\071\061\062\060\061\106\105\060\060\063\061\132\060\155\061
\013\001\010\006\003\125\004\006\023\002\010\110\061\020\060\016
\006\003\125\004\012\023\007\12\11\11\123\145\113\145\171\061\042
\060\060\000\003\125\004\013\023\03\117\11\11\123\124\105\040\106
\157\165\156\144\141\164\151\157\156\040\105\156\144\157\162\163
\145\144\061\105\060\046\006\003\125\004\003\023\03\07\117\11\11\123
\124\105\040\127\11\11\123\145\113\145\171\040\107\154\157\142\141
\154\040\122\157\157\164\040\107\102\040\010\03\01\060\020\001\042
\060\015\006\011\052\206\110\206\367\015\001\001\001\005\000\003
\203\020\017\000\060\202\001\102\002\020\001\100\001\000\033\027\267
# Trust for "OISTE WiSeKey Global Root GB CA"
# Issuer: CN=OISTE WiSeKey Global Root GB CA,OU=OISTE Foundation Endorsed,O=WiSeKey,C=CH
# Subject: CN=OISTE WiSeKey Global Root GB CA,OU=OISTE Foundation Endorsed,O=WiSeKey,C=CH
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SZAFIR ROOT CA2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\121\061\13\060\011\125\004\006\120\114\146\141\152\157\167
\141\140\111\172\142\141\140\112\122\175\172\154\151\143\172\145\156
\151\157\167\141\140\112\123\056\101\105\106\110\130\026\060\003\125
\100\140\03\117\123\132\101\106\111\112\204\122\117\117\124\040
\103\101\100
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\121\061\13\060\011\125\004\006\120\114\146\141\152\157\167
\141\140\111\172\142\141\140\112\122\175\172\154\151\143\172\145\156
\151\157\167\141\140\112\123\056\101\105\106\110\130\026\060\003\125
\100\140\03\117\123\132\101\106\111\112\204\122\117\117\124\040
\103\101\100
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\076\212\135\007\354\125\322\062\235\267\343\266\137\001\353\055\334\344\326\343
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\162\060\202\002\132\240\003\002\001\002\002\024\076
\212\135\007\354\125\322\062\235\267\343\266\137\001\353\055\334
\344\326\344\060\015\006\011\052\206\110\206\036\015\001\001\013
\005\000\060\121\061\13\060\011\060\033\125\004\006\023\002\120
\114\061\050\060\046\060\003\125\004\006\023\002\120
\157\167\141\140\011\111\172\142\141\140\122\157\172\154\151\143\172
\145\156\151\157\167\141\140\123\056\101\105\060\010\030\060\026\006
\003\125\004\003\014\017\123\132\101\106\111\112\202\102\122\177\117
\124\040\103\101\062\060\036\027\015\061\065\010\060\010\071\060\067
\067\064\063\063\060\132\027\015\063\065\061\060\061\071\060\067
\064\063\063\060\132\060\121\061\13\030\060\011\006\003\125\004\006
\023\002\120\114\061\050\060\046\060\003\125\004\012\014\037\113
\162\141\152\157\167\141\140\111\172\142\141\140\122\157\172\154
\151\143\172\145\156\151\157\167\141\140\123\056\101\105\060\101\030
\060\026\006\003\125\004\003\014\017\123\132\101\106\111\112\220\040
\122\117\117\124\040\103\101\062\060\202\020\001\042\060\015\060\011
\052\206\110\206\036\015\001\001\005\000\003\203\202\001\017\000
\060\202\001\012\002\202\001\001\000\267\274\076\120\250\113\315
\100\265\316\141\134\172\226\312\264\241\133\014\042\260\372\265\173
\166\000\167\214\013\317\175\250\206\314\046\121\344\040\075\205
\014\326\130\343\347\36\052\030\353\322\125\046\356\353\123
\334\364\220\326\023\112\014\220\074\030\364\332\322\161\015\222
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SZAIR ROOT CA2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\342\122\372\225\077\355\333\044\140\275\156\050\363\234\314\317
\136\263\077\336
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\021\144\301\211\260\044\261\214\261\007\176\211\236\121\236\231
END
CKA_ISSUER MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\050\060\046\006\003\125\004\012\014\037\113\162\141\152\157\167
\141\040\111\172\142\141\040\122\157\172\154\151\143\172\145\156
\151\157\167\141\040\123\056\101\056\061\030\060\026\006\003\125
\004\003\014\017\123\132\101\106\111\122\040\122\177\117\124\040
\103\101\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\076\212\135\007\354\125\322\062\325\267\343\266\137\001
\353\055\334\344\326\344
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Certum Trusted Network CA 2"
#
# Issuer: CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL
# Subject: CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL
# Not Valid Before: Thu Oct 06 08:39:56 2011
# Not Valid After : Sat Oct 06 08:39:56 2046
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Network CA 2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\012\006\011\006\003\125\004\006\023\002\120\114
\164\157\040\124\145\143\150\156\157\154\157\147\151\145\163\040
\123\056\101\056\061\015\013\060\061\006\003\125\004\006\023\002\120\114
\145\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\115\164\150\157\162\151\164\171\061\044\060
\042\006\003\125\004\003\023\033\103\145\162\164\155\040\124
\162\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103
\101\040\062
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\012\006\011\006\003\125\004\006\023\002\120\114
\061\012\006\004\006\003\125\004\012\023\031\125\156\151\172\145
\164\157\040\124\145\143\150\156\157\154\157\147\151\145\163\040
\123\056\101\056\061\015\013\060\061\006\003\125\004\006\023\002\120\114\060\042\006\003\125\004\012\023\031\125\156\151\172\145
\145\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\115\164\150\157\162\151\164\171\061\044\060
\042\006\003\125\004\003\023\033\103\145\162\164\155\040\124
\162\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103
\101\040\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\041\326\320\112\117\045\173\11\062\067\374\252\136\022
\125\351
END

CKA_VALUE MULTILINE_OCTAL
\060\012\006\003\127\240\003\002\001\002\002\020\041\326\320\112\117\045\173\11\062\067\374\252\136\022
\015\006\010\110\052\206\110\367\015\001\001\015\005\000\060\021
\200\061\010\130\060\011\006\003\125\004\006\023\002\120\114\061\042
\060\040\006\003\125\004\012\023\031\125\156\151\172\145\164\157
\040\012\145\143\135\150\156\157\154\157\147\151\145\163\040\123\056
\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145\162
\164\157\155\040\103\145\162\164\151\146\151\143\141\164\151\115\157
\164\156\10\116\156\164\150\157\162\151\164\171\061\044\060
\003\125\004\003\023\033\103\145\162\164\165\155\040\124\162\165
\163\141\145\144\040\116\145\164\171\157\162\153\040\103\101\040
\062\060\042\030\017\062\060\061\061\060\060\060\060\060\060\060
\071\065\066\132\030\017\062\060\064\066\061\060\060\060\060\070
\063\071\065\066\132\060\021\020\066\010\130\060\011\006\003\125\004
\006\060\023\002\120\114\061\042\060\040\006\003\125\004\012\023\031
\125\156\151\172\145\164\157\040\124\145\143\150\156\157\154\157
\147\151\145\163\040\123\056\101\105\060\014\047\060\045\006\003\125
\004\013\023\036\103\145\162\164\155\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\061\044\060\042\006\003\125\004\003\023\033\103\145\162
\1700\75\041\144\326\373\101\037\030\017\347\311\165\161\275\275
\134\336\064\207\076\101\260\016\366\271\316\072\077\011\023\226\024
\057\336\232\035\013\227\126\316\065\072\226\013\160\115\136\334
\051\136\043\050\162\131\266\253\030\232\141\46\046\034\167\054\046
\166\065\213\050\024\171\124\371\073\365\043\335\020\020\164\311
\220\003\126\221\134\175\127\107\324\022\227\021\042\343\242\111
\224\154\347\267\224\113\272\055\144\332\063\123\114\246\104\377
\132\174\030\065\031\44\330\265\061\134\246\074\172\125\012\013\333
\355\141\032\133\361\161\167\171\143\144\207\157\114\121\070\326
\344\137\167\273\66\121\052\144\205\110\171\130\136\073\370\333
\002\202\147\171\101\211\333\303\016\141\130\075\066\036\371\051\223\210
\150\133\250\014\031\041\136\247\350\021\150\154\046\350\223\066\264
\067\126\312\060\030\046\172\232\045\037\132\232\123\026\023\113\052
\077\373\243\132\327\61\163\062\161\130\236\306\162\234\121\150\047
\361\134\017\264\304\114\245\141\223\370\127\200\007\052\060\045
\125\217\130\161\127\035\161\314\055\176\363\340\176\017\202\250
\157\266\121\54\203\103\167\135\212\122\222\272\241\326\133\170\026
\075\105\342\063\161\323\166\313\130\046\163\375\015
\150\150\041\016\256\266\331\233\124\127\60\312\276\161\036\326\203\134
\134\002\130\054\330\157\112\007\331\311\165\332\100\165\165\320\04
\147\113\157\216\020\020\230\165\346\225\251\134\027\243\355\035\022
\327\212\131\62\235\031\141\212\226\003\305\356\167\006\065\377\317
\344\356\207\031\41\356\333\032\055\205\360\031\256\235\262\030
\011\050\303\322\241\162\027\137\41\072\66\240\103\054\361\034\036
\103\150\010\152\137\073\360\166\143\327\314\005\054\246\306\342
\1066\265\127\127\044\127
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Certum Trusted Network CA 2"
# Issuer: CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies S.A,C=PL
# Subject: CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies S.A,C=PL
# Not Valid Before: Thu Oct 06 08:39:56 2011
# Not Valid After: Sat Oct 06 08:39:56 2046
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Network CA 2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
# Certificate "Hellenic Academic and Research Institutions RootCA 2015"
# Issuer: CN=Hellenic Academic and Research Institutions RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
# Serial Number: 0 (0x0)
# Subject: CN=Hellenic Academic and Research Institutions RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
# Not Valid Before: Tue Jul 07 10:11:21 2015
# Not Valid After : Sat Jun 30 10:11:21 2040

# JNI stuff

\323\335\110\076\053\277\114\005\350\257\020\365\372\166\046\317
\323\334\060\022
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\155\010\043\133\136\164\175\036\047\333\362
END

CKA_ISSUER MULTILINE_OCTAL
\060\042\060\040\006\003\125\004\006\023\002\120\114
\061\042\060\040\006\003\125\004\012\023\031\125\156\151\172\145
\164\157\040\124\145\143\150\156\157\154\157\147\151\145\163\040
\123\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103
\145\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\061\044\060
\042\006\003\125\004\003\023\033\103\145\162\164\165\155\040\124
\162\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103
\101\040\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\041\326\320\112\117\045\017\311\062\067\374\252\136\022
\215\351
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
\162\307\171\142\261\123\010
\063\201\260\126\023\276\346\121\111\343\303\203\012\117\113\234\126
\123\002\351\117\276\366\015\140\352\115\102\215\350\174\033\041\041
\323\033\072\314\167\362\270\220\361\150\030\073\311\132\376\372\055
\364\277\311\165\105\050\333\160\070\002\050\206\72\121\174\364\343
\101\154\205\206\233\377\211\226\047\170\020\121\174\343\101\064
\124\216\331\105\151\132\123\064\115\164\003\377\262\167\355\225
\147\227\344\261\305\253\277\152\043\350\302\224\242\342\104\050\142
\304\113\432\360\330\342\157\015\032\160\176\044\141\223\173\117
\003\062\045\151\105\044\053\226\264\106\152\277\112\013\136\232
\217\301\254\302\320\5\147\363\157\064\322\237\216\143\214\135\072\026
\260\250\244\106\052\370\355\022\354\162\264\357\370\053\176\021
\122\300\213\204\124\371\057\076\343\312\125\250\334\146\261\133\134
\137\330\263\214\131\064\141\124\425\117\154\273\037\030\333\165
\253\330\312\222\315\224\070\141\016\007\006\037\113\106\020\361
\025\276\215\051\340\073\112\053\201\171\017\264\151\237\111\120
\227\115\367\016\126\135\300\225\152\302\066\303\033\150\311\136
\052\234\107\232\276\262\316\305\045\350\372\003\271\332\371\026
\156\221\043\365\034\050\310\374\046\314\327\034\220\126\247\137
\157\072\000\427\341\151\170\211\013\216\019\015\243\252\117\242\033
\020\075\020\100\100\173\361\106\114\327\252\173\010\301\012\365
\155\047\336\002\217\312\303\265\053\132\351\135\353\310\041\123\070
\245\314\073\330\167\067\060\024\211\173\311\157\321\136\100\255\101
\172\027\305\326\112\065\211\267\101\325\174\206\177\125\115\203
\112\245\163\094\300\072\257\202\361\232\044\216\331\216\161\312
\173\270\063\322\262\127\317\076\035\023\015\022\021\356\324\253
\360\351\025\166\000\023\443\403\377\252\250\040\361\133\141\020\044\100
\251\122\227\015\255\123\322\132\035\207\152\000\227\141\142\264
\276\157\152\247\365\054\102\355\062\255\266\041\123\276\274

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Hellenic Academic and Research Institutions RootCA 2015"
# Issuer: CN=Hellenic Academic and Research Institutions RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
# Serial Number: 0 (0x0)
# Subject: CN=Hellenic Academic and Research Institutions RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
# Not Valid Before: Tue Jul 07 10:11:21 2015
# Not Valid After: Sat Jun 30 10:11:21 2040
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions RootCA 2015"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\001\014\006\225\246\230\031\024\377\277\137\030\260\266\225\352
\051\351\022\246
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\312\377\342\333\003\331\313\113\351\017\255\204\375\173\030\316
END
CKA_ISSUER MULTILINE_OCTAL
\060\017\060\015\006\003\125\004\007\023\006\101\164\150\145\156
\163\061\104\060\102\060\003\125\004\012\023\073\110\145\154\154
\145\156\151\143\040\101\143\141\144\145\155\151\143\040\141\156
\144\040\122\145\163\145\141\162\143\150\040\111\156\163\164\151
\164\165\164\151\157\156\163\040\103\145\162\164\056\040\101\165
\164\150\157\162\151\164\171\061\100\060\076\006\003\125\004\003
\023\067\110\145\154\145\156\151\143\040\141\144\145
\155\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150
\040\111\156\163\164\151\164\165\151\157\156\163\040\122\157
\157\164\103\101\040\062\060\061\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Hellenic Academic and Research Institutions ECC RootCA 2015"
#
#
# Issuer: CN=Hellenic Academic and Research Institutions ECC RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
# Serial Number: 0 (0x0)
# Subject: CN=Hellenic Academic and Research Institutions ECC RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
# Not Valid Before: Tue Jul 07 10:37:12 2015
# Not Valid After : Sat Jun 30 10:37:12 2040
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions ECC RootCA 2015"


\# Trust for "Hellenic Academic and Research Institutions ECC RootCA 2015"
\# Issuer: CN=Hellenic Academic and Research Institutions ECC RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
\# Serial Number: 0 (0x0)
\# Subject: CN=Hellenic Academic and Research Institutions ECC RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
\# Not Valid Before: Tue Jul 07 10:37:12 2015
\# Not Valid After : Sat Jun 30 10:37:12 2040

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions ECC RootCA 2015"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\237\361\161\215\222\325\232\363\175\164\227\264\274\157\204\150
\013\272\266\146
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\201\345\264\027\353\302\365\341\113\015\101\173\111\222\376\357
END
CKA_ISSUER MULTILINE_OCTAL
\060\017\060\150\011\006\003\125\004\006\023\002\107\122
\061\017\060\150\011\006\003\125\004\006\023\002\107\122
\063\017\060\150\011\006\003\125\004\006\023\002\107\122
\014\040\012\145\163\145\141\162\143\150\040\111\156\163\164\151
\016\165\164\151\157\156\163\040\103\145\156\162\164\056\040\101\165
\016\150\157\162\151\164\171\061\104\060\102\006\003\125\004\000
\023\073\110\145\154\145\141\162\143\150\040\111\156\163\164\151
\015\156\143\040\141\156\144\040\122\145\163\145\141\162\143\150
\000\111\156\163\164\151\164\165\151\157\156\163\040\105\103
\103\040\122\157\157\164\103\101\040\062\060\061\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "ISRG Root X1"
#
# Issuer: CN=ISRG Root X1,O=Internet Security Research Group,C=US
# Subject: CN=ISRG Root X1,O=Internet Security Research Group,C=US
# Not Valid Before: Thu Jun 04 11:04:38 2015
# Not Valid After : Mon Jun 04 11:04:38 2035
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ISRG Root X1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "ISRG Root X1"
# Issuer: CN=ISRG Root X1,O=Internet Security Research Group,C=US
# Subject: CN=ISRG Root X1,O=Internet Security Research Group,C=US
# Not Valid Before: Thu Jun 04 11:04:38 2015
# Not Valid After : Mon Jun 04 11:04:38 2035
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ISRG Root X1"

CKA_ISSUER MULTILINE_OCTAL
v143222\371\340\332\027\163\351\335\206\115\245\343\160\347\116
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\0143222\371\340\332\027\163\351\335\206\115\245\343\160\347\116
END

CKA_ISSUER MULTILINE_OCTAL
\060\174\061\013\060\011\006\003\125\004\006\023\023\125\123\061
\051\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156
\145\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145
\141\162\143\151\040\107\162\157\165\160\061\025\060\023\006\003
\125\004\003\023\014\111\123\122\107\040\122\157\157\164\040\130
\061
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\020\020\031\260\032\100\343\131\104\143\340\273\143

Open Source Used In Edge Intelligence Edge_1.6 440
\202\213\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "AC RAIZ FNMT-RCM"
#
# Issuer: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
# Subject: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
# Not Valid After : Tue Jan 01 00:00:00 2030
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AC RAIZ FNMT-RCM"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
END
CKA_VALUE MULTILINE_OCTAL
END

---

Open Source Used In Edge Intelligence Edge_1.6 441
# Trust for "AC RAIZ FNMT-RCM"
# Issuer: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
# Subject: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
# Not Valid After : Tue Jan 01 00:00:00 2030
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AC RAIZ FNMT-RCM"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\354\120\065\007\262\025\304\225\142\031\342\250\232\133\102\231
\054\114\054\040
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\342\011\004\264\323\275\323\240\024\375\032\322\107\304\127\035
END
CKA_ISSUER MULTILINE_OCTAL
\060\073\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\021\060\017\006\003\125\004\012\014\010\016\116\115\124\055\122
\103\115\060\031\060\027\006\003\125\004\013\014\020\010\103\040
\122\101\111\132\040\106\116\115\124\055\122\103\115
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\017\135\223\215\060\147\066\310\006\035\032\307\124\204\151
\007
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Amazon Root CA 1"
# Issuer: CN=Amazon Root CA 1,O=Amazon,C=US
# Subject: CN=Amazon Root CA 1,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After : Sun Jan 17 00:00:00 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\073\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\021\060\017\006\003\125\004\012\014\010\016\116\115\124\055\122
\103\115\060\031\060\027\006\003\125\004\013\014\020\010\103\040
\122\101\111\132\040\106\116\115\124\055\122\103\115
END

# Certificate "Amazon Root CA 1"
# Trust for "Amazon Root CA 1"

## Issuer: CN=Amazon Root CA 1,O=Amazon,C=US


## Subject: CN=Amazon Root CA 1,O=Amazon,C=US

## Not Valid Before: Tue May 26 00:00:00 2015

## Not Valid After: Sun Jan 17 00:00:00 2038

### Fingerprint (SHA-256):


### Fingerprint (SHA1):


# CKA_CLASS

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

# CKA_TOKEN

CKA_TOKEN CK_BBOOL CK_TRUE

# CKA_PRIVATE

CKA_PRIVATE CK_BBOOL CK_FALSE

# CKA_MODIFIABLE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

# CKA_LABEL

CKA_LABEL UTF8 "Amazon Root CA 1"

# CKA_CERT_SHA1_HASH


# CKA_CERT_MD5_HASH


# CKA_ISSUER


## Fingerprint (SHA-256):


## Fingerprint (SHA1):


END
# Certificate "Amazon Root CA 2"

# Issuer: CN=Amazon Root CA 2,O=Amazon,C=US


# Subject: CN=Amazon Root CA 2,O=Amazon,C=US

# Not Valid Before: Tue May 26 00:00:00 2015

# Not Valid After: Sat May 26 00:00:00 2040


# CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

# CKA_TOKEN CK_BBOOL CK_TRUE

# CKA_PRIVATE CK_BBOOL CK_FALSE

# CKA_MODIFIABLE CK_BBOOL CK_FALSE

# CKA_LABEL UTF8 "Amazon Root CA 2"

# CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

# CKA_SUBJECT MULTILINE_OCTAL

# CKA_ID UTF8 "0"

# CKA_ISSUER MULTILINE_OCTAL

# CKA_SERIAL_NUMBER MULTILINE_OCTAL

# CKA_VALUE MULTILINE_OCTAL
\001\377\060\016\006\000\031\250\035\017\000\01\037\004\005\004\003\002
\014\060\364\005\031\002\110\037\063\345\122\257\113\130\043\0146
\122\060\015\006\011\052\020\061\110\026\036\070\150\001\014\005\000
\003\022\002\001\000\025\225\020\017\016\170\024\340\042\324\315
\346\065\230\172\073\352\000\000\032\260\227\016\022\374\132\250\0366
\054\214\162\207\251\126\374\177\163\375\143\161\170\024\150\131
\317\060\341\015\050\202\206\023\132\155\202\365\152\346\000\237\240
\005\013\150\344\107\153\107\152\337\266\375\167\062\162\234\50\030
\372\011\136\240\223\035\041\335\221\141\165\205\166\145\220\014\003
\171\267\061\043\143\255\170\203\011\206\150\204\312\377\371\317
\046\232\222\171\347\131\133\035\347\141\142\027\313\363\251\022
\223\223\153\247\350\057\123\222\304\041\130\260\314\002\121\030
\133\205\215\142\131\143\266\255\264\336\232\373\046\367\000\047
\300\135\125\205\067\164\231\131\120\177\343\131\056\104\343\054\045
\356\354\114\062\167\062\243\032\351\113\135\040\035\332\375\034
\207\026\306\103\335\032\247\046\232\105\161\136\251\201\103\067\123
\342\106\173\047\375\340\106\362\211\267\314\102\266\313\103\000\046
\156\331\124\145\311\072\231\010\202\314\037\367\100\214\025\256\262\155
\032\205\032\127\170\346\222\052\333\145\220\200\207\154\002\257
\256\020\072\047\226\066\004\327\035\242\200\143\251\233\361\1345
\272\264\174\024\260\116\311\261\037\164\137\070\366\121\1352\233
\372\054\242\021\132\251\055\047\032\105\261\257\262\116\161\015
\300\130\106\326\151\006\313\123\333\263\376\153\101\131\150\117
\175\114\017\174\162\171\172\131\135\136\112\016\254\233\251\1230
\163\171\174\264\363\341\142\271\270\007\014\262\164\134\127\307\157
\210\214\220\212\473\364\252\371\177\147\072\364\032\025\142\036\267
\273\276\075\261\051\257\147\241\022\362\130\020\031\123\003\060
\033\270\032\211\366\243\247\527\227\003\216\243\011\363\035\213\041
\361\126\337\344\034\321\237\145\002\006\352\134\326\023\263\204
\357\242\245\134\214\167\051\247\150\300\153\256\100\322\250\0264
\352\315\360\215\113\070\234\031\232\033\050\124\270\011\220\057
\312\165\201\076\036\362\144\044\030\030\257\116\377\107\236\007
\366\065\145\244\323\012\126\377\027\144\154\335\250\042\045
\111\223\266\370\000\027\332\130\176\135\356\030\033\260\321\321
\137\041\020\030\371\163\272\002\012\047\007\305\361\326\037\323
\340\373\011\140\154

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Amazon Root CA 2"
# Issuer: CN=Amazon Root CA 2,O=Amazon,C=US
# Subject: CN=Amazon Root CA 2,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After : Sat May 26 00:00:00 2040

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# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 2"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\132\214\357\105\327\246\230\131\166\172\214\213\104\226\265\170
\317\107\113\032
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\310\345\215\316\250\102\342\172\300\052\134\174\236\046\277\146
END

CKA_ISSUER MULTILINE_OCTAL
\060\071\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\010\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\322\226\065\206\237\012\017\345\206\170\0370
\133\046\273\212\067
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#

# Certificate "Amazon Root CA 3"
#
# Issuer: CN=Amazon Root CA 3,O=Amazon,C=US
# Subject: CN=Amazon Root CA 3,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After : Sat May 26 00:00:00 2040
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

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END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\011\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\010\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\063

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\325\164\227\066\146\077\073\013\123\331\1350
\236\166\003\362\112

END

CKA_VALUE MULTILINE_OCTAL
\060\022\001\266\060\022\001\133\240\003\002\000\100\002\000\023\006
\154\237\325\164\227\066\146\077\073\013\123\331\1350
\362\112\006\010\052\206\110\316\075\004\003\002\060\071
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\017\060
\015\006\003\125\004\012\023\006\011\155\141\172\157\156\061\031
\006\027\006\003\125\004\003\023\020\010\155\141\172\157\156\040
\122\157\157\164\040\103\101\040\063\060\036\027\015\061\065\060
\106\056\060\060\060\060\060\060\060\132\027\15\064\060\060\065
\106\026\060\060\060\060\060\060\060\060\060\060\060\132\060\071\016\013\060\011\006
\003\125\004\006\023\002\125\123\061\017\060\015\006\003\125\004
\101\023\002\061\101\155\141\172\157\156\061\031\060\027\006\003\125
\004\003\023\020\010\155\141\172\157\156\040\122\151\157\164\040
\013\101\040\063\060\013\016\003\023\006\007\052\206\110\316\075\002
\001\006\010\052\206\110\316\075\003\001\007\003\102\000\000\040\051
\122\247\306\101\177\300\015\233\035\000\001\033\126\036\063\122\245
\127\055\262\002\235\032\056\032\032\032\131\030\032\025\155\037\163
\020\013\073\023\015\037\011\174\063\245\305\016\062\160\027\15\075
\142\015\127\175\104\130\035\263\067\345\147\010\035\146\136\362\43
\102\026\010\060\017\060\003\125\035\023\001\001\137\70\004\050\060
\003\001\000\113\077\000\016\060\003\012\035\035\170\100\100\137\004\004
\003\002\001\206\060\035\000\003\125\035\016\004\026\004\024\253
\266\333\327\006\236\067\254\060\206\007\221\160\307\234\040\031
\261\170\006\009\012\006\010\052\206\110\316\075\004\003\002\000\03
\11\000\060\106\002\041\000\034\205\222\243\027\267\215\37\1053
\006\245\223\254\032\230\150\141\162\372\341\241\320\037\030\034\170
\140\324\063\331\035\270\030\004\020\041\000\023\024\023\357\361\122\243
\263\226\371\135\306\052\370\266\054\036\072\220\024\026\327\214
\143\044\110\034\033\070\175\325\150\073

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Trust for "Amazon Root CA 3"
# Issuer: CN=Amazon Root CA 3,O=Amazon,C=US
# Subject: CN=Amazon Root CA 3,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After : Sat May 26 00:00:00 2040
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\015\104\335\214\074\214\032\032\130\165\144\201\351\017\056\052\377\263\322\156
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\240\324\357\013\367\265\330\111\225\052\354\365\304\374\201\207
END
CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\001\100\060\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\030\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\325\164\227\066\146\077\073\013\232\331\350
\236\166\003\362\112
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Amazon Root CA 4"
#
# Issuer: CN=Amazon Root CA 4,O=Amazon,C=US
# Subject: CN=Amazon Root CA 4,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After : Sat May 26 00:00:00 2040
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 4"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\064

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\064

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\327\301\127\020\114\051\103\345\161\173\173
\054\310\032\301\016

END

CKA_VALUE MULTILINE_OCTAL

\060\020\001\136\206\060\020\001\170\240\003\002\000\102\002\023\006
\154\237\327\301\127\020\114\051\103\345\161\173\173\054\310\032
\301\116\060\060\120\060\010\052\206\110\116\075\004\000\003\000\060\071
\061\013\060\110\006\003\125\004\006\023\002\125\123\061\017\060
\015\006\003\125\004\012\023\006\101\155\141\172\157\156\060\103\1
\060\020\001\136\206\060\060\060\060\060\060\132\020\071\061\013\060\110\006
\003\012\050\004\006\023\002\125\123\061\017\060\015\006\003\125\004
\012\023\006\101\155\141\172\157\156\060\103\060\027\006\003\012
\004\000\023\020\010\155\141\172\157\156\040\122\157\157\164\040
\103\101\040\064\060\166\060\020\006\007\052\206\110\136\075\002
\001\010\060\050\053\201\004\000\042\003\142\000\004\032\222\253\212\067
\117\242\123\015\376\031\021\173\131\135\201\130\116\113\143\260\142
\366\055\033\333\010\161\041\322\000\350\143\275\232\047\373\360
\071\115\356\352\075\245\311\201\125\243\133\040\230\105\135\026
\333\375\350\020\135\343\234\340\343\275\372\041\42\363\160\144
\063\240\313\044\057\160\272\210\241\052\240\165\370\201\125\61\142
\006\034\021\133\307\11\156\051\260\066\372\056\134\243\102\060\010
\060\017\006\003\125\035\023\000\101\137\70\004\005\060\003\001\001
\377\060\016\006\003\125\035\017\001\003\377\004\004\003\002\001
\206\060\035\060\003\125\035\016\004\026\004\024\323\354\307\072

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# Trust for "Amazon Root CA 4"
# Issuer: CN=Amazon Root CA 4,O=Amazon,C=US
# Subject: CN=Amazon Root CA 4,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After : Sat May 26 00:00:00 2040
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 4"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\366\020\204\007\326\370\273\147\230\014\302\342\104\302\353\256
\034\357\143\276
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\211\274\047\325\353\027\215\006\152\151\132\375\211\107\264\315
END
CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\064
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\327\301\273\020\114\051\103\345\161\173\173
\054\310\032\301\016
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
# Certificate "Symantec Class 1 Public Primary Certification Authority - G6"

# Issuer: CN=Symantec Class 1 Public Primary Certification Authority - G6,OU=Symantec Trust Network,O=Symantec Corporation,C=US
# Subject: CN=Symantec Class 1 Public Primary Certification Authority - G6,OU=Symantec Trust Network,O=Symantec Corporation,C=US
# Not Valid Before: Tue Oct 18 00:00:00 2011
# Not Valid After: Tue Dec 01 23:59:59 2037
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Symantec Class 1 Public Primary Certification Authority - G6"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\224\061\013\060\001\11\066\003\125\004\006\023\002\125\123
\061\035\060\033\060\003\125\004\012\023\024\123\171\155\141\156
\164\145\143\040\103\157\162\160\157\162\141\164\151\157\156\061
\037\060\035\006\003\125\004\012\023\024\123\171\155\141\156
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\013\006\003\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\103\154\141\163\163\040\061\040\120\165\142\154
\151\143\040\120\162\151\155\141\162\171\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\055\040\107\066
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\201\224\061\013\060\001\11\066\003\125\004\006\023\002\125\123
\061\035\060\033\060\003\125\004\012\023\024\123\171\155\141\156
\164\145\143\040\103\157\162\160\157\162\141\164\151\157\156\061
\037\060\035\006\003\125\004\012\023\024\123\171\155\141\156
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\013\006\003\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\103\154\141\163\163\040\061\040\120\165\142\154
\151\143\040\120\162\151\155\141\162\171\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\055\040\107\066
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\044\062\165\362\035\057\322\011\063\367\264\152\312\320
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
# For Email Distrust After: Wed Aug 31 00:00:00 2022
# Trust for "Symantec Class 1 Public Primary Certification Authority - G6"
# Issuer: CN=Symantec Class 1 Public Primary Certification Authority - G6,OU=Symantec Trust
# Network,O=Symantec Corporation,C=US
# Subject: CN=Symantec Class 1 Public Primary Certification Authority - G6,OU=Symantec Trust
# Network,O=Symantec Corporation,C=US
# Not Valid Before: Tue Oct 18 00:00:00 2011
# Not Valid After : Tue Dec 01 23:59:59 2037
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Symantec Class 1 Public Primary Certification Authority - G6"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL
END
# Trust for "Symantec Class 2 Public Primary Certification Authority - G6"
# Issuer: CN=Symantec Class 2 Public Primary Certification Authority - G6,OU=Symantec Trust
# Network,O=Symantec Corporation,C=US
# Subject: CN=Symantec Class 2 Public Primary Certification Authority - G6,OU=Symantec Trust
# Network,O=Symantec Corporation,C=US
# Not Valid Before: Tue Oct 18 00:00:00 2011
# Not Valid After : Tue Dec 01 23:59:59 2037
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Symantec Class 2 Public Primary Certification Authority - G6"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\100\263\061\240\351\277\350\125\274\071\223\312\160\117\116\302
\121\324\035\217
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\175\013\203\345\373\174\255\007\117\040\251\265\337\143\355\171
END
CKA_ISSUER MULTILINE_OCTAL
\060\020\224\061\103\060\011\006\003\125\004\006\023\002\125\123
\061\035\060\033\006\003\125\004\012\023\024\123\171\155\141\156
\164\145\143\040\103\157\162\160\157\162\122\141\164\151\157\156\061
\037\060\035\003\125\004\013\023\026\123\171\155\141\156\164
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\013\006\003\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\103\154\141\163\163\040\062\040\102\102\165\142\154
\151\143\040\120\162\151\155\141\162\171\040\103\145\162\164\151
\164\151\143\141\164\151\157\156\040\010\105\164\150\157\162\151
\164\171\040\055\040\107\066
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\144\202\236\374\067\036\164\135\374\227\377\227\310\261
\377\101
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "D-TRUST Root CA 3 2013"
#
# Issuer: CN=D-TRUST Root CA 3 2013,O=D-Trust GmbH,C=DE
# Serial Number: 1039788 (0xfeedac)
# Subject: CN=D-TRUST Root CA 3 2013,O=D-Trust GmbH,C=DE
# Not Valid Before: Fri Sep 20 08:25:51 2013
# Not Valid After : Wed Sep 20 08:25:51 2028
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root CA 3 2013"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\015\061\013\060\001\110\006\003\125\000\04\006\023\002\104\105\061
\025\060\023\006\003\125\000\04\012\014\014\014\010\045\124\162\165\163
\164\064\010\175\15\124\110\061\037\060\035\006\003\125\000\04\003\014
\026\014\055\124\122\125\123\124\040\122\157\157\164\040\103\101
\040\063\040\062\060\061\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\015\061\013\060\001\110\006\003\125\000\04\006\023\002\104\105\061
\025\060\023\006\003\125\000\04\012\014\014\014\010\045\124\162\165\163
\164\064\010\175\15\124\110\061\037\060\035\006\003\125\000\04\003\014
\026\014\055\124\122\125\123\124\040\122\157\157\164\040\103\101
\040\063\040\062\060\061\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\017\335\254
END
CKA_VALUE MULTILINE_OCTAL
\006\020\020\04\016\060\020\02\066\240\000\03\002\001\002\002\003\017
\335\254\060\015\060\011\105\22\061\102\063\67\015\001\001\013\005
\000\060\010\05\06\011\13\060\011\11\006\003\012\000\04\006\023\002\104\105
\061\025\060\023\006\003\012\000\04\012\014\014\014\010\045\124\162\165\163
\163\164\04\010\175\15\142\110\061\037\060\035\006\003\125\000\04\003
\014\026\014\055\124\122\125\123\124\040\122\157\157\164\040\103\103
\101\040\063\040\062\060\061\063\060\036\027\015\061\063\060\071
\062\020\060\007\062\065\065\061\132\027\015\062\070\060\071\062
\060\060\070\062\065\065\061\132\060\010\05\06\011\013\060\011\006\003
\125\004\006\023\002\014\010\06\012\025\060\023\006\003\012\000\04\001
\014\024\014\055\124\162\165\163\164\04\010\175\15\142\110\061\037
\060\035\006\003\012\000\04\003\014\026\014\055\124\122\125\123\124
\040\012\157\157\164\040\103\010\040\063\040\062\060\061\063\060\036
\020\020\014\04\020\015\060\011\052\206\110\026\367\015\001\001\001
\005\000\003\020\001\017\000\060\020\02\012\02\02\02\02\010\001\000
\304\173\102\222\20\037\354\355\124\230\216\022\02\030\03\012\011\337
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "D-TRUST Root CA 3 2013"
# Issuer: CN=D-TRUST Root CA 3 2013, O=D-Trust GmbH, C=DE
# Serial Number: 1039788 (0xfddac)
# Subject: CN=D-TRUST Root CA 3 2013, O=D-Trust GmbH, C=DE
# Not Valid Before: Fri Sep 20 08:25:51 2013
# Not Valid After: Wed Sep 20 08:25:51 2028
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root CA 3 2013"

# Certificate "TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1"
# Issuer: CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1, OU=Kamu Sertifikasyon Merkezi - Kamu SM, O=Turkiye Bilimsel ve Teknolojik Arastirma Kurumu - TUBITAK, L=Gebze - Kocaeli, C=TR
# Serial Number: 1 (0x1)
# Subject: CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1,OU=Kamu Sertifikasyon Merkezi - Kamu SM,O=Turkiye Bilimsel ve Teknolojik Arastirma Kurumu - TUBITAK,L=Gebze - Kocaeli,C=TR
# Not Valid Before: Mon Nov 25 08:25:55 2013
# Not Valid After : Sun Oct 25 08:25:55 2043


CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
06020132206110130600011006000312500400060230021241122
061003006002060000031250040007023017107145142172145
0400050401131157143141145154151061102060100006003
125004012023071124165162153151171145040102151154
1511155163145154040166145040124145153156157154157
1521153150401121621416164151621514104001131165
162165155165040055040124125102111124101113061055
0600053006000312500401230441131411551650401231145
1621641511461511531411631711571560401151451621153
145172151040055040113141155165040123115061060060
06400060031250040030230555124125102111124101113040
1131141155165040123115040123123114040113157153040
1231451621641511461511531411631510400550401231165
162165155040061
END


CKA_SERIAL_NUMBER MULTILINE_OCTAL
06020132206110130600011006000312500400060230021241122
061003006002060000031250040007023017107145142172145
0400050401131157143141145154151061102060100006003
125004012023071124165162153151171145040102151154
1511155163145154040166145040124145153156157154157
1521153150401121621416164151621514104001131165
162165155165040055040124125102111124101113061055
0600053006000312500401230441131411551650401231145
1621641511461511531411631711571560401151451621153
145172151040055040113141155165040123115061060060
06400060031250040030230555124125102111124101113040
1131141155165040123115040123123114040113157153040
1231451621641511461511531411631510400550401231165
162165155040061
END

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# Trust for "TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1"
# Issuer: CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1,OU=Kamu Sertifikasyon Merkezi - Kamu SM,O=Turkiye Bilimsel ve Teknolojik Arastirma Kurumu - TUBITAK,L=Gebze - Kocaeli,C=TR
# Serial Number: 1 (0x1)
# Subject: CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1,OU=Kamu Sertifikasyon Merkezi - Kamu SM,O=Turkiye Bilimsel ve Teknolojik Arastirma Kurumu - TUBITAK,L=Gebze - Kocaeli,C=TR
# Not Valid Before: Mon Nov 25 08:25:55 2013
# Not Valid After : Sun Oct 25 08:25:55 2043

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL

END
# Certificate "GDCA TrustAUTH R5 ROOT"

# Issuer: CN=GDCA TrustAUTH R5 ROOT,O="GUANG DONG CERTIFICATE AUTHORITY CO.,LTD.",C=CN
# Serial Number:7d:09:97:fe:f0:47:ea:7a
# Subject: CN=GDCA TrustAUTH R5 ROOT,O="GUANG DONG CERTIFICATE AUTHORITY CO.,LTD.",C=CN
# Not Valid Before: Wed Nov 26 05:13:15 2014
# Not Valid After : Mon Dec 31 15:59:59 2040
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GDCA TrustAUTH R5 ROOT"
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GDCA TrustAUTH R5 ROOT"
# Issuer: CN=GDCA TrustAUTH R5 ROOT,O="GUANG DONG CERTIFICATE AUTHORITY CO.,LTD.",C=CN
# Serial Number:7d:09:97:fe:f0:47:ea:7a
# Subject: CN=GDCA TrustAUTH R5 ROOT,O="GUANG DONG CERTIFICATE AUTHORITY CO.,LTD.",C=CN
# Not Valid Before: Wed Nov 26 05:13:15 2014
# Not Valid After : Mon Dec 31 15:59:59 2040
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GDCA TrustAUTH R5 ROOT"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\017\066\070\133\201\032\045\303\233\061\116\203\312\351\064\146
\160\314\164\264
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\143\314\331\107\064\065\134\157\123\243\342\010\160\110\037\264
END
CKA_ISSUER MULTILINE_OCTAL
\060\142\061\013\060\001\100\06\003\125\004\006\023\002\103\116\061
\062\060\060\006\003\125\004\012\014\051\107\125\101\116\107\040
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\104\117\116\107\040\103\105\122\124\111\106\111\103\101\124\105
\040\101\125\124\110\117\122\111\124\131\104\103\117\056\054\114
\124\104\056\061\137\060\035\006\003\125\004\003\014\026\107\104
\103\101\040\124\162\165\163\164\101\125\124\110\040\122\065\040
\122\117\117\124
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\175\011\227\376\360\107\352\172
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "TrustCor RootCert CA-1"
#
# Issuer: CN=TrustCor RootCert CA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Serial Number:00:da:9b:ec:71:f3:03:b0:19
# Subject: CN=TrustCor RootCert CA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Not Valid Before: Thu Feb 04 12:32:16 2016
# Not Valid After : Mon Dec 31 17:23:16 2029
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TrustCor RootCert CA-1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
END

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# Certificate "TrustCor RootCert CA-1"
# Issuer: CN=TrustCor RootCert CA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Serial Number:00:da:9b:ec:71:f3:03:b0:19
# Subject: CN=TrustCor RootCert CA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Not Valid Before: Thu Feb 04 12:32:16 2016
# Not Valid After : Mon Dec 31 17:23:16 2029
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TrustCor RootCert CA-1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
END

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\170\245\006\274\325\000\136\011\012\362\047\172\122\374\055\325
\261\352\264\211\141\044\363\032\023\333\333\251\317\122\355\014\044
\272\271\123\365\345\176\000\164\372\223\255\154\051\122\225\51\212\264
\273\323\127\277\263\363\250\215\234\363\044\11\130\52\326\231\236
\364\236\376\300\176\102\207\347\013\225\212\332\267\150\016\220
\114\373\160\077\217\112\054\224\363\046\63\355\143\151\251\224\330
\202\163\035\107\010\202\231\033\027\111\15\271\154\156\357\140\225
\201\216\041\200\265\275\240\163\333\032\202\62\167\304\105\352\132
\046\373\146\166\166\370\006\037\141\155\017\125\305\023\267\020
\126\162\006\007\245\363\261\032\003\005\144\016\235\132\212\326
\206\160\033\044\336\376\050\212\053\320\152\260\374\172\242\334
\262\171\016\213\145\017\002\003\011\000\000\124\313\143\060\141\060
\035\006\003\125\035\016\004\026\004\024\356\153\111\074\172\077
\015\343\261\011\267\212\310\253\031\237\163\063\120\347\060\037
\006\003\125\035\043\004\030\060\026\200\024\356\153\111\074\172
\077\015\343\261\011\267\212\310\253\031\237\163\063\120\347\060
\017\006\003\125\035\023\001\013\377\004\035\050\006\000\330
\060\016\006\003\032\050\017\001\001\377\004\035\050\017\001\013
\060\015\006\011\052\206\110\206\367\015\000\000\013\005\000\003
\020\200\001\010\000\045\030\324\221\170\235\256\217\036\353\052\1123
\332\055\104\015\031\240\036\153\061\236\115\016\236\255\075\134
\101\157\225\053\044\241\171\230\072\070\066\373\273\146\236\110
\377\220\220\357\075\324\270\232\264\027\165\077\040\233\316\162
\317\241\125\301\111\144\242\031\006\241\007\063\141\013\031\035
\361\352\253\243\335\246\501\126\420\307\175\162\362\327\134\237
\221\357\221\213\267\334\355\146\242\317\216\146\073\274\237\072
\002\234\040\235\350\260\230\300\225\324\012\234\344\201\232\165\224
\065\234\220\013\210\067\006\255\131\225\012\260\032\147\323\031
\312\211\347\062\132\066\034\076\202\250\013\223\276\106\320\144
\221\266\317\331\266\030\317\333\176\322\145\243\246\034\216\027
\061\310\137\317\166\333\333\233\205\343\130\262\167\172\166\073\154
\057\120\034\347\333\366\147\171\037\365\202\225\232\007\247\024
\257\217\334\050\041\147\011\323\326\115\132\304\031\034\216\167
\134\033\224\120\047\156\213\131\376\324\170\224\203\276\067\115
\316\137\307\036\116\074\340\211\063\225\013\017\245\062\326\074
\132\171\054\031
END

CKA_NSS MOZILLA CA_POLICY CK BBOOL CK_TRUE
CKA_NSS_SERVER DISTRUST AFTER CK BBOOL CK FALSE
CKA_NSS EMAIL DISTRUST AFTER CK BBOOL CK FALSE

# Trust for "TrustCor RootCert CA-1"
# Issuer: CN=TrustCor RootCert CA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de
R.L.,L=Panama City,ST=Panama,C=PA
# Serial Number:00:da:9b:ec:71:f3:03:b0:19
# Subject: CN=TrustCor RootCert CA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de
R.L.,L=Panama City,ST=Panama,C=PA
# Not Valid Before: Thu Feb 04 12:32:16 2016
CAK_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CAK_TOKEN CK_BBOOL CK_TRUE
CAK_PRIVATE CK_BBOOL CK_FALSE
CAK_MODIFIABLE CK_BBOOL CK_FALSE
CAK_LABEL UTF8 "TrustCor RootCert CA-1"
CAK_CERT_SHA1_HASH MULTILINE_OCTAL
\377\275\315\347\202\310\103\136\074\157\046\206\134\312\250\072
105\133\303\012
END
CAK_CERT_MD5_HASH MULTILINE_OCTAL
\156\205\361\334\032\000\323\042\325\262\262\254\153\067\005\105
END
CAK_ISSUER_MULTILINE_OCTAL
\060\201\244\061\013\060\011\006\003\125\004\006\023\002\120\101
\061\017\060\015\000\003\125\004\010\014\006\120\141\156\141\155
\141\061\024\060\002\22\060\003\125\004\007\014\013\120\141\156\141
\155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012
\014\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145
\155\163\040\123\056\040\144\145\040\122\056\114\056\061\047\060
\045\056\003\125\004\013\014\036\124\162\165\163\164\103\157\162
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\115\164
\150\157\162\151\164\171\061\037\060\035\006\003\125\004\003\014
\026\124\162\165\163\164\103\157\162\040\122\157\157\164\103\145
\162\164\040\103\101\055\061
END
CAK_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\332\233\354\161\136\003\260\031
END
CAK_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CAK_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CAK_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CAK_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "TrustCor RootCert CA-2"
#
# Issuer: CN=TrustCor RootCert CA-2,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Serial Number:25:a1:df:ca:33:cb:59:02
# Subject: CN=TrustCor RootCert CA-2,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Not Valid Before: Thu Feb 04 12:32:23 2016
# Not Valid After : Sun Dec 31 17:26:39 2034
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TrustCor RootCert CA-2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\244\061\013\060\011\006\003\125\004\006\023\002\120\010
\061\017\060\015\006\003\125\004\010\014\006\120\014\156\141\155
\141\061\024\060\022\006\003\125\004\007\014\013\120\141\156\141
\155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012
\014\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145
\155\163\040\123\056\040\144\145\040\122\056\114\056\114\047\060
\045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\061\037\060\035\006\031\125\004\003\014
\026\124\162\165\163\164\103\157\162\040\122\157\157\164\103\145
\162\164\040\103\101\055\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\244\061\013\060\011\006\003\125\004\006\023\002\120\010
\061\017\060\015\006\003\125\004\010\014\006\120\014\156\141\155
\141\061\024\060\022\006\003\125\004\007\014\013\120\141\156\141
\155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012
\014\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145
\155\163\040\123\056\040\144\145\040\122\056\114\056\114\047\060
\045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\061\037\060\035\006\031\125\004\003\014
\026\124\162\165\163\164\103\157\162\040\122\157\157\164\103\145
\162\164\040\103\101\055\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\045\312\313\002
END
CKA_VALUE MULTILINE_OCTAL
\060\202\006\057\060\020\004\027\240\003\002\001\002\002\101\045
\241\337\312\063\313\131\002\060\015\006\011\052\206\110\206\367
\015\001\010\013\005\000\060\201\244\061\013\060\011\006\003\125
\004\003\120\010\101\016\017\060\015\006\031\125\004\010\014
\006\120\014\156\141\155\141\061\024\060\022\006\003\125\004\007
\014\013\120\141\156\141\155\141\040\103\151\164\171\061\044\060
\042\006\003\125\004\012\014\033\124\162\165\163\164\103\157\162
\040\123\171\163\164\145\155\163\040\123\056\040\144\145\040\122
\056\114\056\061\047\060\005\006\003\125\004\013\014\036\124\162
# Trust for "TrustCor RootCert CA-2"

# Issuer: CN=TrustCor RootCert CA-2,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA

# Serial Number: 25:a1:df:ca:33:cb:59:02

# Subject: CN=TrustCor RootCert CA-2,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA

# Not Valid Before: Thu Feb 04 12:32:23 2016
# Not Valid After: Sun Dec 31 17:26:39 2034

# Fingerprint (SHA-256):

# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TrustCor RootCert CA-2"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\270\276\155\313\126\361\125\271\143\324\022\312\116\006\064\307
\224\262\034\300
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\242\341\370\030\013\272\105\325\307\101\052\273\067\122\105\144
END

CKA_ISSUER MULTILINE_OCTAL
\060\201\244\061\013\060\001\11\006\003\125\004\006\023\002\120\101
\061\017\060\015\006\003\125\004\010\014\006\120\141\156\141\155
\141\061\024\060\022\006\003\125\004\007\014\013\120\141\156\141
\155\141\040\013\151\164\171\061\044\060\042\006\003\125\004\012
\014\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145
\155\163\040\123\056\040\144\145\040\122\056\114\056\061\047\060
\045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162
\040\013\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\061\037\060\035\006\003\125\004\003\014
\026\124\162\165\163\164\103\157\162\040\122\157\157\164\103\145
\162\164\040\103\101\055\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\045\241\337\312\063\313\131\002
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# # Certificate "TrustCor ECA-1"
#
# Issuer: CN=TrustCor ECA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama
# Trust for "TrustCor ECA-1"
# Issuer: CN=TrustCor ECA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Serial Number:00:84:82:2c:5f:1c:62:d0:40
# Subject: CN=TrustCor ECA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Not Valid Before: Thu Feb 04 12:32:33 2016
# Not Valid After : Mon Dec 31 17:28:07 2029
# Fingerprint (SHA-256):
# Fingerprint (SHA1): 58:D1:DF:95:95:67:6B:63:C0:F0:5B:1C:17:4D:8B:84:0B:C8:78:BD

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TrustCor ECA-1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\130\321\337\225\225\147\153\143\300\360\133\034\027\115\213\204\013\310\170\275
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\047\222\204\35\012\365\100\174\351\346\153\235\330\365\347\154
END

CKA_ISSUER MULTILINE_OCTAL
\060\201\234\061\103\060\011\006\003\125\004\006\023\002\120\101\061\107\060\015\060\003\125\004\010\014\006\120\141\156\141\155
\141\061\024\060\022\006\003\125\004\007\014\013\120\141\156\141
\155\141\040\013\151\164\171\061\044\060\042\006\003\125\004\012
\014\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145
\155\163\040\123\056\040\144\145\040\122\056\114\056\061\047\060
\045\006\003\125\004\130\143\036\124\162\165\163\164\103\157\162
\040\103\145\162\164\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\061\027\060\025\006\003\125\004\003\014
\016\124\162\165\163\164\103\157\162\040\105\103\101\055\061
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\204\202\054\137\034\142\320\100

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "SSL.com Root Certification Authority RSA"
#
# Issuer: CN=SSL.com Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Subject: CN=SSL.com Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid After: Tue Feb 12 17:39:39 2041
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "SSL.com Root Certification Authority RSA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\174\061\130\060\011\000\003\125\004\006\023\002\125\123\061
\016\060\014\000\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\000\003\125\004\007\110\015\117\156\163\164\157
\156\061\030\060\026\060\003\125\004\012\014\017\123\114\040
\103\157\162\164\157\162\141\164\151\157\156\061\061\060\057\006
\003\125\004\003\140\050\123\123\114\056\143\157\155\040\122\157
\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171\040\122\123\101

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\174\061\130\060\011\000\003\125\004\006\023\002\125\123\061
\016\060\014\000\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\000\003\125\004\007\110\015\117\156\163\164\157
\156\061\030\060\026\060\003\125\004\012\014\017\123\114\040

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# Trust for "SSL.com Root Certification Authority RSA"
# Issuer: CN=SSL.com Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Subject: CN=SSL.com Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid After : Tue Feb 12 17:39:39 2041
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com Root Certification Authority RSA"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\267\253\063\010\321\352\104\167\272\024\300\160\361\354\254\254\302\325\274\245\133\241\051

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\206\151\022\300\160\361\135\254\254\302\325\274\245\133\241\051

END

CKA_ISSUER_MULTILINE_OCTAL
\060\174\061\013\066\011\006\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\04\010\14\005\124\14\17\163\061
\020\060\016\006\003\125\004\007\014\006\110\157\165\163\164\167
\156\060\010\060\026\006\003\125\004\012\014\017\123\123\14\040
\103\157\156\162\160\157\162\14\164\151\157\156\061\060\060\057\006
\003\125\004\003\014\050\123\123\123\123\123\123\14\040
\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171\040\122\123\101

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\173\054\233\323\026\200\062\231

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
# Certificate "SSL.com Root Certification Authority ECC"

# Issuer: CN=SSL.com Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Subject: CN=SSL.com Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid Before: Fri Feb 12 18:14:03 2016
# Not Valid After: Tue Feb 12 18:14:03 2041
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com Root Certification Authority ECC"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\174\060\013\036\060\011\006\003\125\004\006\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\030\060\026\060\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\061\061\060\057\006
\003\125\004\003\014\050\123\123\140\056\143\157\155\040\122\157
\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171\040\105\103\103
END

CKA_ID UTF8 "0"

CKA_ISSUER_MULTILINE_OCTAL
\060\174\060\013\036\060\011\006\003\125\004\006\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\030\060\026\060\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\061\061\060\057\006
\003\125\004\003\014\050\123\123\140\056\143\157\155\040\122\157
\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171\040\105\103\103
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\165\346\337\313\301\150\133\250
END

CKA_VALUE_MULTILINE_OCTAL
\060\202\002\215\060\020\002\024\240\003\002\001\002\002\010\165
\346\337\313\301\150\133\250\060\012\006\010\052\206\110\316\075
END

cka_nss_mozilla_ca_policy CK_BBOOL CK_TRUE
cka_nss_server_distrust_after CK_BBOOL CK_FALSE
cka_nss_email_distrust_after CK_BBOOL CK_FALSE

# Trust for "SSL.com Root Certification Authority ECC"
# Issuer: CN=SSL.com Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number:75:e6:df:cb:c1:68:5b:a8
# Subject: CN=SSL.com Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid Before: Fri Feb 12 18:14:03 2016
# Not Valid After : Tue Feb 12 18:14:03 2041
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com Root Certification Authority ECC"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\303\031\174\071\044\346\124\257\033\304\253\046\225\172\342\303
\016\023\002\152
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\056\332\344\071\177\234\217\067\321\160\237\046\027\121\072\216
END
CKA_ISSUER MULTILINE_OCTAL
\060\174\061\013\060\001\100\006\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\030\060\026\006\003\125\004\012\014\017\123\123\140\040
\103\157\162\160\157\162\141\164\151\157\156\061\060\057\006
\003\125\004\003\140\050\123\123\140\056\143\157\155\040\122\157
\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171\040\105\103\103
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\165\346\337\313\301\150\133\250
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "SSL.com EV Root Certification Authority RSA R2"
# Issuer: CN=SSL.com EV Root Certification Authority RSA R2,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number:56:b6:29:cd:34:bc:78:f6
# Subject: CN=SSL.com EV Root Certification Authority RSA R2,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid Before: Wed May 31 18:14:37 2017
# Not Valid After : Fri May 30 18:14:37 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com EV Root Certification Authority RSA R2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163
\061\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164
\157\156\016\030\060\026\006\003\125\004\012\014\017\123\123\114
\040\013\157\162\161\016\164\114\164\151\157\156\061\067\060\065
\006\003\125\004\003\014\056\123\123\140\056\143\157\155\040\105
\126\040\122\157\157\164\040\010\145\162\164\151\146\151\143\141
\164\151\157\156\040\010\165\164\150\157\162\151\164\171\040\122
\123\101\040\122\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163
\061\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164
\157\156\016\030\060\026\006\003\125\004\012\014\017\123\123\114
\040\013\157\162\161\016\164\114\164\151\157\156\061\067\060\065
\006\003\125\004\003\014\056\123\123\140\056\143\157\155\040\105
\126\040\122\157\157\164\040\010\145\162\164\151\146\151\143\141
\164\151\157\156\040\010\165\164\150\157\162\151\164\171\040\122
\123\101\040\122\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\126\266\051\315\064\274\170\366
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\353\060\202\023\240\003\002\001\002\002\010\126
\266\051\315\064\274\170\366\060\015\006\061\011\052\206\110\206\367
\015\001\010\013\005\000\060\021\202\061\013\060\011\006\003\125
\004\006\023\020\012\25\123\061\016\060\014\006\003\125\004\010\014
\005\124\145\170\141\163\061\020\060\016\060\003\125\004\007\014\007
\015\013\015\157\165\163\164\157\156\061\067\060\065
\006\003\125\004\003\014\056\123\123\140\056\143\157\155\040\105
\126\040\122\157\157\164\040\010\145\162\164\151\146\151\143\141
\164\151\157\156\040\010\165\164\150\157\162\151\164\171\040\122
\123\101\040\122\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\126\266\051\315\064\274\170\366
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\353\060\202\023\240\003\002\001\002\002\010\126
\266\051\315\064\274\170\366\060\015\006\061\011\052\206\110\206\367
\015\001\010\013\005\000\060\021\202\061\013\060\011\006\003\125
\004\006\023\020\012\25\123\061\016\060\014\006\003\125\004\010\014
\005\124\145\170\141\163\061\020\060\016\060\003\125\004\007\014\007
\015\013\015\157\165\163\164\157\156\061\067\060\065
\006\003\125\004\003\014\056\123\123\140\056\143\157\155\040\105
\126\040\122\157\157\164\040\010\145\162\164\151\146\151\143\141
\164\151\157\156\040\010\165\164\150\157\162\151\164\171\040\122
\123\101\040\122\062
END
\263\216\313\012\235\111\216\277\244\304\221\273\146\027\7005\121
\230\165\373\345\120\005\417\236\361\024\372\253\323\212\076\377
\221\051\217\143\213\330\264\251\124\001\015\276\223\206\057\371
\112\155\307\136\365\127\371\312\125\034\222\276\107\017\066\305
\337\152\267\333\165\302\107\045\177\271\361\143\370\150\055\125
\004\321\362\261\152\060\244\317\274\074\136\037\170\347\245\324\040
\160\260\004\035\267\367\162\247\336\042\015\275\063\045\106\214
\144\222\046\343\076\056\143\226\323\214\075\370\030\011\132
\003\314\175\202\050\030\202\262\235\005\276\145\355
\226\137\145\164\074\337\011\065\056\173\234\023\375\033\017\135
\307\155\210\072\126\017\314\073\341\257\002\057\042\245\106\312
\106\074\240\034\114\326\310\047\246\136\056\134\025\146\011\341\046
\051\376\306\122\141\272\261\163\377\303\014\234\345\154\152\224
\077\024\312\100\026\225\204\363\113\251\254\137\114\141\223\155
\321\017\313\42\225\014\042\246\147\147\104\056\271\331\322\212
\101\263\146\013\132\373\175\043\245\362\032\260\377\336\262\303
\224\056\321\077\337\222\267\212\257\005\073\145\307\240\154\261
\315\142\022\203\322\030\333\430\053\161\064\274\157\167\166\261\020
\303\367\005\032\300\326\257\164\142\311\027\167\222\151\220 \141
\034\363\225\200\164\124\217\030\034\303\363\003\320\277\244\103
\165\526\123\030\172\012\056\011\034\066\237\221\135\202\212\042
\11\321\016\204\045\335\313\003\014\027\311\120\000\010\116\065
\115\212\213\355\360\002\224\146\054\104\177\313\225\047\226\027
\255\011\060\254\266\161\102\175\156\213\027\366\034\011\324\055\073
\230\025\161\132\323\124\023\331\140\363\365\113\146\117\372\361\356
\040\022\215\264\254\127\261\105\143\241\215\254\166\251\302\373
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for “SSL.com EV Root Certification Authority RSA R2”
# Issuer: CN=SSL.com EV Root Certification Authority RSA R2,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number: 56:b6:29:cd:34:bc:78:f6
# Subject: CN=SSL.com EV Root Certification Authority RSA R2,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid Before: Wed May 31 18:14:37 2017
# Not Valid After : Fri May 30 18:14:37 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com EV Root Certification Authority RSA R2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\164\072\360\122\233\320\062\240\364\112\203\315\324\272\251\173
\174\056\304\232
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\341\036\061\130\032\256\124\123\002\366\027\152\021\173\115\225
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163
\061\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164
\157\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114
\040\010\157\162\160\157\162\141\164\151\157\156\061\067\060\065
\006\003\125\004\003\014\056\123\123\114\056\143\157\155\040\105
\126\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040\122
\123\101\040\122\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\126\266\051\315\064\274\170\366
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "SSL.com EV Root Certification Authority ECC"
# Issuer: CN=SSL.com EV Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number:2c:29:9c:5b:16:ed:05:95
# Subject: CN=SSL.com EV Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid After: Tue Feb 12 18:15:23 2041
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com EV Root Certification Authority ECC"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "SSL.com EV Root Certification Authority ECC"
# Issuer: CN=SSL.com EV Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number:2c:29:9c:5b:16:ed:05:95
# Subject: CN=SSL.com EV Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid After : Tue Feb 12 18:15:23 2041
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com EV Root Certification Authority ECC"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\114\335\121\243\321\136\504\0\62\2\42\60\3\06\3\05\0\62\2\43\0\3\02\221
\307\106\102\155
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\131\123\042\145\203\102\200\1\12\4\300\1\16\102\271\132\174\362\220
END
CKA_ISSUER MULTILINE_OCTAL
\060\177\061\013\060\001\100\060\03\125\004\006\023\002\125\123\061
# Certificate "GlobalSign Root CA - R6"

# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R6
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R6
# Not Valid Before: Wed Dec 10 00:00:00 2014
# Not Valid After : Sun Dec 10 00:00:00 2034

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root CA - R6"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\060\003\125\004\007\140\007\110\157\165\163\164\157
\156\061\030\060\026\060\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\061\064\060\062\006
\003\125\004\003\014\053\123\123\114\056\143\157\155\040\105\126
\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\040\105\103
\103
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\054\051\234\133\026\355\005\225
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GlobalSign Root CA - R6"
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R6
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R6
# Not Valid Before: Wed Dec 10 00:00:00 2014
# Not Valid After : Sun Dec 10 00:00:00 2034
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root CA - R6"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\200\224\144\016\265\247\241\312\021\234\037\335\325\237\201\002
\143\247\373\321
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\177\335\007\344\324\042\144\071\036\014\067\102\352\321\306\256
END
CKA_ISSUER MULTILINE_OCTAL
\060\114\061\040\060\036\006\003\125\004\013\023\027\107\154\157
\142\141\154\123\151\147\156\040\122\157\157\164\040\103\101\040
\055\040\122\066\061\023\060\021\006\003\125\004\012\023\012\107
\154\157\142\141\154\123\151\147\156\061\023\060\021\006\003\125
\004\003\023\012\107\154\157\142\141\154\123\151\147\156
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\016\105\346\273\003\023\063\033\205\145\110\346\377\105\121
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "OISTE WISEKey Global Root GC CA"
#
# Issuer: CN=OISTE WISEkey Global Root GC CA,OU=OISTE Foundation Endorsed,O=WISEKey,C=CH
# Subject: CN=OISTE WISEKey Global Root GC CA,OU=OISTE Foundation Endorsed,O=WISEKey,C=CH
# Not Valid Before: Tue May 09 09:48:34 2017
# Not Valid After : Fri May 09 09:58:33 2042
# Fingerprint (SHA-256):
\050\060\046\006\000\031\255\004\000\030\023\037\117\111\123\124\105\040
\127\111\112\131\145\113\145\171\040\107\154\157\142\141\154\040\122
\157\157\164\040\107\103\040\103\101\060\166\060\020\006\060\007\052
\206\110\136\167\050\002\100\060\050\053\201\004\000\042\000\142\000
\004\114\135\112\140\000\036\017\162\030\274\330\361\272\263\211\1342
\171\112\124\030\246\175\131\124\044\333\121\127\375\232\64\011\044\303
\013\042\237\313\152\047\202\201\015\322\130\057\061\134\164\202
\156\132\045\331\124\165\235\361\333\320\232\242\113\041\176\026
\241\031\220\032\071\132\246\120\170\137\030\226\017\120\033\065
\067\017\152\036\334\131\023\115\244\126\200\067\346\275\133\061
\221\124\124\060\122\060\016\060\063\125\035\157\001\100\137\004
\004\030\020\001\060\060\017\006\060\033\125\035\052\011\001\137\004
\005\060\003\010\000\137\770\060\035\006\033\125\035\160\040\260\004
\204\110\207\024\024\254\343\350\236\220\140\072\327\132\111\356\323
\255\214\264\120\146\060\020\006\011\053\006\001\004\000\120\206\067
\025\001\004\003\020\001\000\060\012\006\010\052\206\110\316\075
\004\003\003\005\150\000\000\060\145\020\060\046\307\151\133\334\325
\347\262\343\374\110\014\214\214\033\351\171\214\033\143\325\311\112
\224\116\115\202\112\163\036\262\200\040\251\045\300\114\132\155
\111\051\114\170\023\134\176\110\353\144\002\061\000\333\304\040
\062\100\377\232\111\002\266\210\336\024\257\135\154\231\161\215
\032\071\213\327\340\224\066\026\034\007\102\020\176\13\375\302
\242\355\357\173\260\200\117\130\017\113\123\071\275
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "OISTE WISeKey Global Root GC CA"
# Issuer: CN=OISTE WISeKey Global Root GC CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# Subject: CN=OISTE WISeKey Global Root GC CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# Not Valid Before: Tue May 09 09:48:34 2017
# Not Valid After : Fri May 09 09:58:33 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OISTE WISeKey Global Root GC CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\340\021\204\136\064\033\276\120\201\015\271\234\366\026\046\321\226
\037\303\271\061
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\251\262\271\055\057\223\144\370\245\151\131\221\351\150\007\043
END

CKA_ISSUER MULTILINE_OCTAL
\060\155\061\013\060\001\110\006\003\112\023\113\103\110\061
\020\060\016\006\003\112\023\107\127\111\123\145\113\145
\171\106\104\12\060\004\106\003\112\023\103\111\123\124
\105\040\106\157\165\156\144\141\164\151\157\156\040\105\156\144
\157\162\163\145\144\106\050\106\046\000\003\112\023\037
\117\111\123\124\105\040\12\111\123\145\113\145\171\040\107\154
\157\142\141\154\040\122\157\157\164\040\107\103\040\103\101
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\041\052\126\014\256\332\014\253\100\105\277\053\242\055
\072\352
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "UCA Global G2 Root"
#
# Issuer: CN=UCA Global G2 Root,O=UniTrust,C=CN
# Subject: CN=UCA Global G2 Root,O=UniTrust,C=CN
# Not Valid Before: Fri Mar 11 00:00:00 2016
# Not Valid After : Mon Dec 31 00:00:00 2040
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "UCA Global G2 Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\075\061\013\060\001\110\006\003\112\023\113\103\116\061
\021\060\17\060\003\12\023\104\101\12\156\151\124\162\165
\163\164\160\133\060\03\100\060\03\12\023\003\140\022\12\103\101
\104\107\154\157\142\141\154\040\107\062\040\12\157\157\164
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\075\123\060\016\006\003\12\023\002\103\116\061
\021\060\17\060\003\12\023\012\140\101\12\156\151\124\162\165
\163\164\160\133\060\03\100\060\03\12\023\003\140\022\12\103\101
\104\107\154\157\142\141\154\040\107\062\040\12\157\157\164
# Trust for "UCA Global G2 Root"
# Issuer: CN=UCA Global G2 Root,O=UniTrust,C=CN
# Subject: CN=UCA Global G2 Root,O=UniTrust,C=CN
# Not Valid Before: Fri Mar 11 00:00:00 2016
# Not Valid After : Mon Dec 31 00:00:00 2040
# Fingerprint (SHA-256):
# Fingerprints (SHA1):
# CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
# CKA_TOKEN CK_BBOOL CK_TRUE
# CKA_PRIVATE CK_BBOOL CK_FALSE
# CKA_MODIFIABLE CK_BBOOL CK_FALSE
# CKA_LABEL UTF8 "UCA Global G2 Root"
# CKA_CERT_SHA1_HASH MULTILINE_OCTAL
# CKA_CERT_MD5_HASH MULTILINE_OCTAL
# CKA_ISSUER MULTILINE_OCTAL
# CKA_SERIAL_NUMBER MULTILINE_OCTAL
# CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
# CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
# CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
# CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "UCA Extended Validation Root"
# Issuer: CN=UCA Extended Validation Root,O=UniTrust,C=CN
# Subject: CN=UCA Extended Validation Root,O=UniTrust,C=CN
# Not Valid Before: Fri Mar 13 00:00:00 2015
# Not Valid After : Fri Dec 31 00:00:00 2038
# Fingerprint (SHA-256):
# Fingerprint (SHA1):
# CKA_CLASS CK_OBJECT_CLASS CKO_NSS_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "UCA Extended Validation Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\013\060\001\110\006\003\125\004\006\023\002\103\116\061
\021\060\017\006\003\125\004\012\014\010\125\156\151\124\162\165
\163\164\016\014\065\060\043\006\003\125\004\003\014\034\125\103\101
\040\105\170\164\145\156\144\145\144\014\126\141\154\151\144\141
\164\151\157\156\040\122\157\157\164
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\001\110\006\003\125\004\006\023\002\103\116\061
\021\060\017\006\003\125\004\012\014\010\125\156\151\124\162\165
\163\164\016\014\065\060\043\006\003\125\004\003\014\034\125\103\101
\040\105\170\164\145\156\144\145\144\040\126\141\154\151\144\141
\164\151\157\156\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\117\322\053\217\365\144\310\063\236\117\064\130\146\043
\160\140
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\012\020\017\006\003\012\002\002\020\117
\322\053\217\365\144\310\063\236\117\064\130\146\043
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\107
\061\013\060\011\006\003\125\004\006\023\002\103\116\061\021\060
\017\006\003\125\004\012\014\010\125\156\151\124\162\165\163\164
\061\014\065\060\043\006\003\125\004\003\014\034\125\103\101
\040\105\170\164\145\156\144\145\144\040\126\141\154\151\144\141
\164\151\157\156\040\122\157\157\164
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\051\132\060\020\003\102\240\003\002\001\002\002\020\117
\322\053\217\365\144\310\063\236\117\064\130\146\043
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\107
\061\013\060\011\006\003\125\004\006\023\002\103\116\061\021\060
\017\006\003\125\004\012\014\010\125\156\151\124\162\165\163\164
\061\014\065\060\043\006\003\125\004\003\014\034\125\103\101
\040\105\170\164\145\156\144\145\144\040\126\141\154\151\144\141
\165\151\157\156\040\122\157\157\164
END

Open Source Used In Edge Intelligence Edge_1.6 506
Open Source Used In Edge Intelligence Edge_1.6  507
# Trust for "UCA Extended Validation Root"
# Issuer: CN=UCA Extended Validation Root,O=UniTrust,C=CN
# Subject: CN=UCA Extended Validation Root,O=UniTrust,C=CN
# Not Valid Before: Fri Mar 13 00:00:00 2015
# Not Valid After : Fri Dec 31 00:00:00 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "UCA Extended Validation Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\243\241\260\157\044\141\043\112\343\066\245\302\067\374\246\377
\335\360\327\072
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\241\363\137\103\306\064\233\332\277\214\176\005\123\255\226\342
END
CKA_ISSUER MULTILINE_OCTAL
\060\017\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\021\060\017\006\003\125\004\012\014\010\125\156\151\124\162\165
\163\164\060\145\060\043\006\003\125\004\003\014\034\125\103\101
\040\105\170\164\145\156\144\145\144\040\126\141\154\151\144\141
\164\151\157\156\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\017\322\053\217\365\144\310\063\236\117\064\130\146\043
\160\140
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "Certigna Root CA"
#
# Issuer: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR
# Serial Number: 00:ca:e9:1b:89:f1:55:03:00:ea:6:142:ce:6:e3:e1
# Subject: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR
# Not Valid Before: Tue Oct 01 08:32:27 2013
# Not Valid After: Sat Oct 01 08:32:27 2033
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certigna Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\104\150\151\155\171\157
\164\151\163\061\034\060\032\006\003\125\004\013\014\023\060\060
\060\062\040\064\070\061\064\060\063\060\070\061\060\060\060\063
\066\061\031\060\027\006\003\125\004\003\014\020\013\145\162\164
\151\147\156\141\040\122\157\157\164\040\013\010
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\104\150\151\155\171\157
\164\151\163\061\034\060\032\006\003\125\004\013\014\023\060\060
\060\062\040\064\070\061\064\060\063\060\070\061\060\060\060\063
\066\061\031\060\027\006\003\125\004\003\014\020\013\145\162\164
\151\147\156\141\040\122\157\157\164\040\013\010
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\013\031\035\103\211\361\125\003\015\243\346\101\155\304
\343\246\341
END
CKA_VALUE MULTILINE_OCTAL
Open Source Used In Edge Intelligence

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for “Certigna Root CA”
# Issuer: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR
# Subject: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR
# Not Valid Before: Tue Oct 01 08:32:27 2013
# Not Valid After : Sat Oct 01 08:32:27 2033
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certigna Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
05501512204336 resilÊv2512340104400101611101611101606
04704703650103
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
0161134060142047035313327A327256142272351325337167
END
CKA_ISSUER MULTILINE_OCTAL
0601030000000101300600110025004006023002106122061
022060020060003125004012014011111041501511551171157
161415116306103406003125004013140123060060
0606020400640700610640660630600700610600600606063
066061031060027006000312500400301402010311451162164
1511147156114104011221157115711640401031101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
002021000321235103321113611250030152433461011155304
343246341
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "emSign Root CA - G1"

# Issuer: CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Subject: CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign Root CA - G1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
0601470610130606011106003112500400602300211111116061
02306002100600312500401302301214515512315111471156
0401201131110610450600430060031125004012023034145
115116511441501621410401241451431501561571541571147
1511451630401141511551164145144061034060032006
003125004003023023145155123151114711560401221157
164040103101040055040107061
END
CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
0601470610130606011106003112500400602300211111116061
02306002100600312500401302301214515512315111471156
0401201131110610450600430060031125004012023034145
115116511441501621410401241451431501561571541571147
1511451630401141511551164145144061034060032006
003125004003023023145155123151114711560401221157
164040103101040055040107061
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
06012012061365344142014154130355326330
END

CKA_VALUE MULTILINE_OCTAL
0602020032240602020021742240003002001002002012061
3653441420141541303553263300600150060110522061110
20636701500100101300500060147061013060011006003
1250040060230021111160610230600210060031125000413
023012145155123151147115604012011111061045060043
00600312500401202303414511516514411501621141040124
115143150156157154157114711511451163040114151155115
# Trust for "emSign Root CA - G1"
# Issuer: CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Subject: CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign Root CA - G1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "emSign ECC Root CA - G3"
# Issuer: CN=emSign ECC Root CA - G3,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Serial Number:3c:f6:07:a9:68:70:0e:da:8b:84
# Subject: CN=emSign ECC Root CA - G3,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign ECC Root CA - G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\153\061\013\060\001\011\006\003\125\004\006\023\002\111\116\061
\023\060\021\006\003\125\004\013\023\012\145\155\151\147\156
\040\120\113\111\106\104\060\043\006\003\125\004\012\023\034\145
\115\165\144\150\162\141\040\124\145\143\150\156\157\154\157\147
\151\145\163\040\114\151\155\151\164\145\144\061\040\060\036\006
\003\125\004\003\023\027\145\155\123\151\147\156\040\105\103\103
\040\122\157\157\164\040\103\101\040\055\040\107\063
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\153\061\013\060\001\011\006\003\125\004\006\023\002\111\116\061
\023\060\021\006\003\125\004\013\023\012\145\155\151\147\156
\040\120\113\111\106\104\060\043\006\003\125\004\012\023\034\145
\115\165\144\150\162\141\040\124\145\143\150\156\157\154\157\147
\151\145\163\040\114\151\155\151\164\145\144\061\040\060\036\006
\003\125\004\003\023\027\145\155\123\151\147\156\040\105\103\103
\040\122\157\157\164\040\103\101\040\055\040\107\063
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\012\074\366\007\251\150\160\016\332\213\204
END

CKA_VALUE MULTILINE_OCTAL
\060\202\020\002\116\060\022\000\132\240\003\002\000\010\120\024
\366\007\251\150\160\016\332\213\204\060\012\006\010\052\206\110
\131\075\004\003\003\060\153\061\103\060\011\006\003\125\004\006
\023\002\111\116\061\023\060\021\006\003\125\004\013\023\012\145
\155\123\151\147\156\040\120\113\111\106\104\060\043\006\003\125\004\006
\004\120\123\034\145\151\165\144\150\162\141\040\124\145\143\150
\156\157\154\157\147\151\145\163\040\114\151\155\151\164\145\144
\061\040\060\036\006\003\125\004\003\023\027\145\155\123\151\147
\156\040\105\103\103\040\122\157\157\164\040\103\101\040\055\040
\107\063\060\036\207\150\106\010\070\062\061\070\061\070\063\306
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "emSign ECC Root CA - G3"
# Issuer: CN=emSign ECC Root CA - G3,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Serial Number:3c:f6:07:a9:68:70:0e:da:8b:84
# Subject: CN=emSign ECC Root CA - G3,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign ECC Root CA - G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL

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\340\160\036\052\200\03\001\037\071\122\132\102\13\276\134\221\120\172\030\252
\115\265\276\060\16\06\00\03\125\035\017\001\000\377\700\04\004\003\002
\001\155\060\017\000\06\03\125\035\023\001\000\377\700\04\005\060\003
\001\010\001\377\700\060\15\000\011\05\220\06\11\120\063\067\015\000\011\013
\005\000\000\03\202\000\01\000\000\32\012\12\26\372\202\35\01\173\050\242
\351\245\035\037\373\700\055\304\071\122\101\11\070\047\054\304\0154
\030\025\200\03\06\254\257\107\131\057\046\013\343\066\206\035\707\03
\376\103\227\111\062\231\022\025\133\337\201\051\377\253\123\370
\273\301\170\07\254\234\123\257\12\275\15\02\14\075\15\016\336\030
\243\240\043\143\073\14\14\170\04\255\325\16\13\126\052\170
\222\243\117\017\20\06\06\06\342\336\376\000\034\243\140\00\170\047
\255\240\260\022\26\35\066\172\12\24\12\275\047\364\040\047\142\350
\115\224\044\023\334\012\00\35\074\253\056\310\103\011\112\306
\141\004\345\11\064\176\323\304\13\036\017\300\252\35\122\124
\136\363\143\053\11\17\11\20\32\362\27\173\23\12\075\300\056
\274\002\053\323\304\100\344\21\00\07\061\036\233\316\046\23\1023
\373\021\352\23\20\42\01\02\101\30\171\363\333\201\12\20\60\310\226
\02\22\156\347\33\10\17\22\21\073\242\107\267\12\24\00\33\3400
\314\232\220\352\303\30\12\00\061\42\01\04\060\300\025\110\247\250
\131\174\341\02\256\042\242\342\01\12\12\00\372\142\253\122\114\341
\361\337\31\276\03\015\012
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "emSign Root CA - C1"
# Issuer: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US
# Serial Number:00:ae:cf:00:ba:c4:cf:32:f8:43:b2
# Subject: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign Root CA - C1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
# Certificate "emSign ECC Root CA - C3"

# Issuer: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
# Subject: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign ECC Root CA - C3"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

CKA_ID UTF8 "0"

CKA_ISSUER_MULTILINE_OCTAL

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# Trust for “emSign ECC Root CA - C3”
# Issuer: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
# Subject: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign ECC Root CA - C3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\266\257\103\302\233\201\123\175\366\357\153\303\037\037\140\025
\014\356\110\146
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\076\123\263\243\201\356\327\020\037\033\232\260\035\027\222\365\325
END
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\001\110\066\003\125\004\006\023\002\125\123\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013\145
\115\165\144\150\162\141\040\111\156\143\061\040\060\036\060\036\060\036\061
\125\004\003\023\027\145\155\123\151\147\156\040\105\103\103\040
\122\157\157\164\040\103\101\040\055\040\103\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\012\173\161\266\202\126\270\022\174\234\250
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Hongkong Post Root CA 3"
#
# Issuer: CN=Hongkong Post Root CA 3,O=Hong Kong Post,L=Hong Kong,ST=Hong Kong,C=HK
# Subject: CN=Hongkong Post Root CA 3,O=Hong Kong Post,L=Hong Kong,ST=Hong Kong,C=HK
# Not Valid Before: Sat Jun 03 02:29:46 2017
# Not Valid After : Tue Jun 03 02:29:46 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_NSS_Mozilla_CA_Policy CK_BBOOL CK_TRUE
CKA_NSS_Server_Distrust_After CK_BBOOL CK_FALSE
CKA_NSS_Email_Distrust_After CK_BBOOL CK_FALSE

# Trust for "Hongkong Post Root CA 3"
# Issuer: CN=Hongkong Post Root CA 3,O=Hongkong Post,L=Hong Kong,ST=Hong Kong,C=HK
# Subject: CN=Hongkong Post Root CA 3,O=Hongkong Post,L=Hong Kong,ST=Hong Kong,C=HK
# Not Valid Before: Sat Jun 03 02:29:46 2017
# Not Valid After : Tue Jun 03 02:29:46 2042
CKA_CLASS CKOBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hongkong Post Root CA 3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\107\276\156\316\313\243\162\072\055\151\135\313\310\350\105\226
\324\372\102\301\021\114\167\135\222\373\152\377\171\104\345\353
\201\236\257\240\232\257\265\210\011\146\313\070\035\074\337\134
\030\035\073\025\070\214\046\074\375\362\050\342\356\132\132\111\210
\054\337\171\075\216\236\220\074\275\101\112\072\335\133\366\232
\264\316\077\045\060\177\062\175\242\003\322\152\241\122
\336\156\223\215\030\046\375\125\254\275\217\233\322\171\257\347
\206\054\331\037\011\157\243\157\251\204\324\163\277\115\241\164
\033\160\043\140\362\314\016\252\177\244\234\114\045\250\262\146
\073\070\377\331\224\060\366\162\204\276\150\125\020\017\306\163
\054\026\151\223\007\376\261\105\355\273\242\125\152\260\332\265
\112\002\045\047\205\327\267\267\267\267\267\014\324\090\200\053\076
\227\251\234\325\176\125\114\306\336\105\020\034\352\351\107\323\37
\003\123\356\356\172\001\002\026\170\324\350\302\276\106\166\210
\023\077\042\273\110\010\220\351\122\000\264\002\176\041\032\030\213\343
\004\053\036\363\075\136\036\322\030\343\371\263\055\266\367\067\134\306
\313\041\116\260\367\231\110\030\205\301\053\272\125\256\006\352
\320\007\262\334\253\320\202\226\165\316\322\120\350\231\347\317
\057\237\347\161\322\114\105\252\373\041\273\061\320\252\237\077\244
\262\042\312\026\072\120\127\304\133\103\147\305\145\142\030\111
\001\153\103\331\133\030\236\255\317\261\114\016\105\364\240\132
\054\233\055\035\246\300\255\250\107\364\047\114\070\015\056\033
\111\073\122\364\350\210\203\053\124\050\032\362\065\122\264\062
\203\142\151\114\144\014\221\124\237\227\352\164\026\375\037\210\006
\232\233\364
END

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# Certificate "Entrust Root Certification Authority - G4"

# Issuer: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Serial Number:00:d9:b5:43:7f:af:a9:39:0f:00:00:00:00:55:65:ad:58
# Subject: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Not Valid Before: Wed May 27 11:11:16 2015
# Not Valid After : Sun Dec 27 11:41:16 2037
# Fingerprint (SHA-256):

# Certificate Type CK_CERTIFICATE
# Class CK_OBJECT_CLASS
# Token CK_BBOOL CK_TRUE
# Private CK_BBOOL CK_FALSE
# Modifiable CK_BBOOL CK_FALSE
# Label UTF8 "Entrust Root Certification Authority - G4"
# Subject CK_SUBJECT
# Issuer CK_ISSUER
# Serial Number CK_SERIAL_NUMBER
# Trust Server Auth CK_TRUST_SERVER_AUTH
# Trust Email Protection CK_TRUST_EMAIL_PROTECTION
# Trust Code Signing CK_TRUST_CODE_SIGNING
# Trust Step Up Approved CK_BBOOL CK_FALSE

# Certificate Unicode "Entrust Root Certification Authority - G4"

# Issuer: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Serial Number:00:d9:b5:43:7f:af:a9:39:0f:00:00:00:00:55:65:ad:58
# Subject: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Not Valid Before: Wed May 27 11:11:16 2015
# Not Valid After : Sun Dec 27 11:41:16 2037
# Fingerprint (SHA-256):

# Certificate Type CK_CERTIFICATE
# Class CK_OBJECT_CLASS
# Token CK_BBOOL CK_TRUE
# Private CK_BBOOL CK_FALSE
# Modifiable CK_BBOOL CK_FALSE
# Label UTF8 "Entrust Root Certification Authority - G4"
# Subject CK_SUBJECT
# Issuer CK_ISSUER
# Serial Number CK_SERIAL_NUMBER
# Trust Server Auth CK_TRUST_SERVER_AUTH
# Trust Email Protection CK_TRUST_EMAIL_PROTECTION
# Trust Code Signing CK_TRUST_CODE_SIGNING
# Trust Step Up Approved CK_BBOOL CK_FALSE
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
060201276061013060011000600312500406023002125123
061102606002440060031250040120230151051561641621165
163164054040111156143056061505060646006031250004
01310230371231451450401671671670561451561641621165
1631640561561451640571541451471411540555164145162
1551630610710606700603125004013023060501430351
0400620606061065040105156164162165163164054040111
056143056040055040146157162040141651641501571162
1511721451440401651631450401571561541710610162060
060006003125004003023051105156164162165163164040
12211571571640401031451621641511461143141164151
157156040101165164150157162151164171040055040107
064

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
0020210003312651031177257251071017000000000000125
145255130

END

CKA_VALUE MULTILINE_OCTAL
0602020061130600202004063124000302001002002021000
33112651031772572510710170000000000000125145255130
060015006011052206110206367015001000100300000060
12011276061013060011006003125004006023002125123061
026006024000003125004012023015105156164162165163
16415404011111561430560610500604600603125004013
023037123145145040167167167056145156164162165163
16405615614516405711541451471411540555164145162155
16306107106067006003012500401302306050143051040
0620600610650401051561641621651631640540401111156
143056040055040146157162040141165164150157162151
172145144040165163145040157156154171061062060060
006003125004003023051105156164162165163164040122
1571571640401031451621641511461143141164151157
156040101165164150157162151164171040055040107064
06003602701506106506065060620670610610610610661066
132027015063067061062062067061061064061061066132

Open Source Used In Edge Intelligence Edge_1.6 528
# Trust for "Entrust Root Certification Authority - G4"
# Issuer: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use only",O=Entrust, Inc.,C=US
# Serial Number:00:d9:b5:43:7f:af:a9:39:0f:00:00:00:55:65:ad:58
# Subject: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use only",O=Entrust, Inc.,C=US
# Not Valid Before: Wed May 27 11:11:16 2015
# Not Valid After : Sun Dec 27 11:41:16 2037
# Fingerprint (SHA-256):

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE

Open Source Used In Edge Intelligence Edge_1.6 530
# Certificate "Microsoft ECC Root Certificate Authority 2017"

# Issuer: CN=Microsoft ECC Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Subject: CN=Microsoft ECC Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Not Valid Before: Wed Dec 18 23:06:45 2019
# Not Valid After : Fri Jul 18 23:16:04 2042

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft ECC Root Certificate Authority 2017"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\067\145\062\034\006\003\125\004\003\023\055\115\151\143\162\157\163
\157\146\164\040\010\103\131\121\164\151\157\156\061\036\060\034\006\003\125\004\012\023\025\115\151\143\162\157\163
\157\146\164\040\010\103\131\040\012\122\157\157\164\040\010\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151
\164\171\040\062\060\061\067
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\067\145\062\034\006\003\125\004\003\023\055\115\151\143\162\157\163
\157\146\164\040\010\103\131\121\164\151\157\156\061\036\060\034\006\003\125\004\012\023\025\115\151\143\162\157\163
\157\146\164\040\010\103\131\040\012\122\157\157\164\040\010\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151
\164\171\040\062\060\061\067
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\146\362\075\257\207\336\213\261\112\352\014\127\061\001\302\354
END
CKA_VALUE MULTILINE_OCTAL
\067\145\062\034\006\003\125\004\003\023\055\115\151\143\162\157\163
\157\146\164\040\010\103\131\121\164\151\157\156\061\036\060\034\006\003\125\004\012\023\025\115\151\143\162\157\163
\157\146\164\040\010\103\131\040\012\122\157\157\164\040\010\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151
\164\171\040\062\060\061\067
END

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Open Source Used in Edge Intelligence Edge_1.6 532
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Microsoft ECC Root Certificate Authority 2017"
# Issuer: CN=Microsoft ECC Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Subject: CN=Microsoft ECC Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Not Valid Before: Wed Dec 18 23:06:45 2019
# Not Valid After : Fri Jul 18 23:16:04 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft ECC Root Certificate Authority 2017"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\231\232\144\303\175\237\253\225\361\107\151\211\024\140
\356\304\303\05
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\335\241\003\346\112\223\020\321\277\360\031\010\231\375\147
END
CKA_ISSUER MULTILINE_OCTAL

Open Source Used In Edge Intelligence Edge_1.6 533
# Certificate "Microsoft RSA Root Certificate Authority 2017"

# Issuer: CN=Microsoft RSA Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Subject: CN=Microsoft RSA Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Not Valid After : Fri Jul 18 23:00:23 2042

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft RSA Root Certificate Authority 2017"

CKA_SUBJECT MULTILINE_OCTAL
\060\014\050\061\013\060\011\006\013\012\050\004\006\023\002\012\051\012\061
\036\060\013\064\006\003\012\050\004\012\023\025\015\015\014\033\016\017\016\013
\015\017\014\016\040\010\013\013\013\040\012\022\015\017\016\040\010\013\015\016
\016\014\015\014\016\014\164\040\040\010\116\016\014\015\016\015\017\016\012\015
\016\017\014\040\062\060\061\067

END
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Microsoft RSA Root Certificate Authority 2017"
# Issuer: CN=Microsoft RSA Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Subject: CN=Microsoft RSA Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Not Valid After: Fri Jul 18 23:00:23 2042
# Fingerprints (SHA-256):

CKA_CLASS CK/Object_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft RSA Root Certificate Authority 2017"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\163\345\346\112\073\377\026\075\352\256\017\204

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\020\377\000\377\317\311\313\036\020\036\323\227\011\060\003\125\004\006\023\002\125\123\061
\036\060\034\006\003\125\004\012\023\025\151\151\143\162\157\163
\157\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\066\060\064\006\003\125\004\003\023\055\115\151\143\162\157\163
\157\146\164\040\122\123\101\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151
\164\171\040\062\060\061\067

CKA_ISSUER MULTILINE_OCTAL
\060\145\060\101\136\060\003\125\004\006\023\002\125\123\061
\036\060\034\006\003\125\004\012\023\025\151\151\143\162\157\163
\157\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\066\060\064\006\003\125\004\003\023\055\115\151\143\162\157\163
\157\146\164\040\122\123\101\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151
\164\171\040\062\060\061\067

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\377\000\377\317\311\313\036\020\036\323\227\011\060\003\125\004\006
\023\002\125\123\061

CKA_ISSUER MULTILINE_OCTAL
\060\145\060\101\136\060\003\125\004\006\023\002\125\123\061
\036\060\034\006\003\125\004\012\023\025\151\151\143\162\157\163
\157\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\066\060\064\006\003\125\004\003\023\055\115\151\143\162\157\163
\157\146\164\040\122\123\101\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151
\164\171\040\062\060\061\067

CKA_ISSUER MULTILINE_OCTAL
\060\145\060\101\136\060\003\125\004\006\023\002\125\123\061
\036\060\034\006\003\125\004\012\023\025\151\151\143\162\157\163
\157\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\066\060\064\006\003\125\004\003\023\055\115\151\143\162\157\163
\157\146\164\040\122\123\101\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151
\164\171\040\062\060\061\067

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\377\000\377\317\311\313\036\020\036\323\227\011\060\003\125\004\006
\023\002\125\123\061

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "e-Szigno Root CA 2017"

# Issuer: CN=e-Szigno Root CA 2017,OID.2.5.4.97=VATHU-23584497,O=Microsec Ltd.,L=Budapest,C=HU
# Serial Number:01:54:48:ef:21:fd:97:59:0d:f5:04:0a
# Subject: CN=e-Szigno Root CA 2017,OID.2.5.4.97=VATHU-23584497,O=Microsec Ltd.,L=Budapest,C=HU
# Not Valid Before: Tue Aug 22 12:07:06 2017
# Not Valid After : Fri Aug 22 12:07:06 2042

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "e-Szigno Root CA 2017"

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\161\061\013\036\000\011\006\003\125\004\006\023\002\110\125\061\021\060\017\006\003\125\004\007\014\010\012\165\144\141\160\145\163\164\061\026\060\024\006\003\125\004\012\014\015\115\151\143\162\157\163\145\143\040\114\164\144\056\061\027\060\025\006\003\125\004\141\140\016\126\101\124\110\125\055\062\063\065\070\064\064\071\067\061\036\060\034\006\003\125\004\003\014\025\145\055\123\172\151\147\156\157\040\122\157\157\164\040\103\101\040\062\060\061\067

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\014\001\124\110\357\041\375\227\131\105\365\004\012

END

CKA_VALUE MULTILINE_OCTAL
\060\202\002\100\060\020\001\345\240\003\002\001\002\002\014\001\124\110\357\041\375\227\131\105\365\004\012\206\013\160\075\004\003\002\006\016\016\016\010\006\003\125\004\003\014\025\145\055\123\172\151\147\156\157\040\122\157\157\164\040\103\101\040\062\060\061\067

END
# Trust for "e-Szigno Root CA 2017"
# Issuer: CN=e-Szigno Root CA 2017,OID:2.5.4.97=VATHU-23584497,O=Microsec Ltd.,L=Budapest,C=HU
# Serial Number:01:54:48:e;f:21:fd:97:59:0d:f5:04:0a
# Subject: CN=e-Szigno Root CA 2017,OID:2.5.4.97=VATHU-23584497,O=Microsec Ltd.,L=Budapest,C=HU
# Not Valid Before: Tue Aug 22 12:07:06 2017
# Not Valid After : Fri Aug 22 12:07:06 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

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Open Source Used In Edge Intelligence Edge_1.6 540
# Trust for "certSIGN Root CA G2"
# Issuer: OU=certSIGN ROOT CA G2,O=CERTSIGN SA,C=RO
# Serial Number: 11:00:34:b6:4e:c6:36:2d:36
# Subject: OU=certSIGN ROOT CA G2,O=CERTSIGN SA,C=RO
# Not Valid Before: Mon Feb 06 09:27:35 2017
# Not Valid After: Thu Feb 06 09:27:35 2042
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "certSIGN Root CA G2"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\046\371\223\264\355\075\050\047\260\271\113\247\351\025\035\243\215\222\345\062\END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\214\361\165\212\306\031\137\224\267\367\145\040\207\303\227\307\END

CKA_ISSUER MULTILINE_OCTAL
\060\101\061\013\060\001\110\006\003\125\004\006\023\002\122\117\061
\024\060\022\006\003\125\004\012\023\013\103\105\122\124\123\111
\107\116\040\123\101\061\034\060\032\006\003\125\004\013\023\023
\143\145\162\164\123\111\107\116\040\122\117\117\124\040\103\101
\040\107\062\END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\021\000\064\266\116\306\066\055\066\END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Trustwave Global Certification Authority"
# Issuer: CN=Trustwave Global Certification Authority,O="Trustwave Holdings, Inc." ,L=Chicago,ST=Illinois,C=US
# Subject: CN=Trustwave Global Certification Authority,O="Trustwave Holdings, Inc." ,L=Chicago,ST=Illinois,C=US
# Not Valid Before: Wed Aug 23 19:34:12 2017
# Not Valid After : Sat Aug 23 19:34:12 2042
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Trustwave Global Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\210\061\13\106\001\11\006\003\125\004\006\023\002\125\123
\061\102\006\001\17\006\003\125\004\010\001\14\010\111\154\154\151\156
\157\151\163\061\02\006\001\16\006\003\125\004\007\014\007\103\150
\151\143\141\147\157\061\04\060\03\006\003\125\004\012\014\030
\124\162\165\163\164\167\141\166\145\04\01\157\154\144\151\156
\147\163\05\04\00\11\156\143\05\06\10\06\05\07\00\03\125\004
\003\014\05\01\12\16\15\16\16\14\17\14\14\16\45\04\01\154\157
\142\141\154\04\01\03\145\162\164\151\146\151\143\141\164\151\157
\156\04\01\10\11\15\16\15\157\16\15\164\171
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\201\210\061\103\060\01\11\006\003\125\004\006\023\002\125\123
\061\102\006\001\17\006\003\125\004\010\001\14\010\111\154\154\151\156
\157\151\163\061\02\006\001\16\006\003\125\004\007\014\007\103\150
\124\162\165\163\164\167\141\166\145\04\01\157\154\144\151\156
\147\163\05\04\00\11\156\143\05\06\10\06\05\07\00\03\125\004
\003\014\05\01\12\16\15\16\16\14\17\14\14\16\45\04\01\154\157
\142\141\154\04\01\03\145\162\164\151\146\151\143\141\164\151\157
\156\04\01\10\11\15\16\15\157\16\15\164\171

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\014\005\367\016\206\332\111\136\106\065\056\272\262
END

CKA_VALUE MULTILINE_OCTAL
\060\202\005\332\206\02\02\003\30\24\003\00\20\001\002\002\014\005
\367\016\206\332\111\136\106\065\056\272\262\06\001\05\006\01\052
\206\11\02\06\367\015\001\001\13\05\00\06\20\01\21\06\1\013\060
\01\006\003\125\004\006\023\002\125\123\061\02\06\01\07\006\003
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END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Trustwave Global Certification Authority"
# Issuer: CN=Trustwave Global Certification Authority,O="Trustwave Holdings, Inc.".,L=Chicago,ST=Illinois,C=US
# Subject: CN=Trustwave Global Certification Authority,O="Trustwave Holdings, Inc.".,L=Chicago,ST=Illinois,C=US
# Not Valid Before: Wed Aug 23 19:34:12 2017
# Not Valid After : Sat Aug 23 19:34:12 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Trustwave Global Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\057\217\066\117\341\130\227\104\041\131\207\245\052\232\320\151
\225\046\177\265
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\370\034\030\055\057\272\137\155\241\154\274\307\253\221\307\016
END
CKA_ISSUER_MULTILINE_OCTAL
\060\021\210\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\021\060\017\006\003\125\004\010\014\010\111\154\151\156
\157\151\163\061\020\060\016\006\003\125\004\007\014\007\103\150
\151\143\141\147\157\061\041\060\037\006\003\125\004\012\014\030
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156
\147\163\054\040\111\156\143\056\061\061\060\057\006\003\125\004
\003\140\050\124\162\165\163\164\167\141\166\145\040\107\154\157
\142\141\154\040\103\145\162\165\161\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\014\005\067\016\206\332\111\136\106\065\056\272\262
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Trustwave Global ECC P256 Certification Authority"
#
# Issuer: CN=Trustwave Global ECC P256 Certification Authority,O="Trustwave Holdings, Inc.".,L=Chicago,ST=Illinois,C=US
# Serial Number:0d:6a:5f:08:3f:28:5c:3e:51:95:df:5d
# Subject: CN=Trustwave Global ECC P256 Certification Authority,O="Trustwave Holdings,
\040\110\157\154\144\151\156\147\163\054\040\111\156\143\056\061
\072\060\070\060\063\125\004\003\023\061\124\162\165\163\164\167
\141\166\145\040\107\154\157\142\141\154\040\105\103\103\040\120
\062\065\066\040\103\145\162\164\151\146\154\141\151\143\157
\156\040\101\115\164\150\157\162\151\164\171\060\036\027\015\056\061
\067\060\070\062\063\066\061\071\063\065\061\060\132\027\015\064\062
\060\070\062\063\061\107\063\065\061\060\132\060\201\122\106\101\13
\060\011\006\003\125\004\006\023\002\125\123\016\012\060\017\006
\003\125\040\100\23\010\111\154\154\151\156\157\151\163\060\110
\060\016\006\060\032\125\004\000\023\002\125\123\016\012\060\017\006
\003\125\040\100\23\010\111\154\154\151\156\157\151\163\060\110
\156\143\056\061\072\060\070\060\063\031\125\004\003\023\061\124\162
\165\163\164\167\141\166\145\040\107\154\157\142\141\154\040\105
\103\103\040\120\062\065\066\040\013\145\162\164\151\146\151\143
\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\060
\131\060\023\006\007\052\206\110\316\075\002\000\016\005\023\060
\10\03\16\075\003\001\007\03\012\000\004\017\063\037\013\046\043\033
\163\062\010\132\140\036\123\123\123\123\123\123\123\123\123\123\123\123
\20\03\35\070\030\112\035\321\250\314\223\224\227\006\070\312\015
\025\142\130\016\216\001\052\145\123\252\337\064\221\056\201\030\134
\063\222\061\030\437\051\011\072\246\077\255\243\103\036\060\010\060\017
\006\060\013\250\035\023\000\000\177\040\005\060\003\000\001\001\377\060
\017\006\000\312\035\352\070\001\001\377\004\005\030\003\030\007\060\000
\060\035\006\003\125\035\016\004\026\004\024\234\101\006\254\220
\155\321\112\353\165\245\112\020\231\263\261\241\123\112\367\060
\012\006\001\010\52\206\011\031\075\004\003\002\003\017\000\000\060\010
\002\040\007\346\124\332\016\240\132\262\256\021\123\070\303\266
\377\151\336\045\276\370\024\067\010\363\104\316\052\337\010\041
\014\067\002\040\055\046\003\240\005\275\153\321\366\134\370\014
\314\206\155\263\234\064\110\143\024\011\305\215\167\032\342\314
\234\234\164\173
END

CKA_NSS MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Trustwave Global ECC P256 Certification Authority"
# Issuer: CN=Trustwave Global ECC P256 Certification Authority,O="Trustwave Holdings, Inc.".,L=Chicago,ST=Illinois,C=US
# Serial Number:0d:6a:5f:08:3f:28:5c:3e:51:95:df:5d
# Subject: CN=Trustwave Global ECC P256 Certification Authority,O="Trustwave Holdings, Inc.".,L=Chicago,ST=Illinois,C=US
# Not Valid Before: Wed Aug 23 19:35:10 2017
# Not Valid After : Sat Aug 23 19:35:10 2042
# Fingerprint (SHA-256):
**CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST**

**CKA_TOKEN CK_BBOOL CK_TRUE**

**CKA_PRIVATE CK_BBOOL CK_FALSE**

**CKA_MODIFIABLE CK_BBOOL CK_FALSE**

**CKA_LABEL UTF8 "Trustwave Global ECC P256 Certification Authority"**

**CKA_CERT_SHA1_HASH MULTILINE_OCTAL**
\264\220\202\335\105\014\276\213\133\261\146\323\342\244\010\046\315\355\102\317
END

**CKA_CERT_MD5_HASH MULTILINE_OCTAL**
\133\104\343\215\135\060\206\046\350\015\005\322\131\247\203\124
END

**CKA_ISSUER MULTILINE_OCTAL**
\060\201\221\013\060\011\006\003\125\004\006\023\002\125\123\061\102\006\017\006\003\125\004\010\023\010\111\154\154\151\156\157\151\163\061\020\060\016\006\003\125\004\007\023\007\103\150\151\143\141\147\157\061\041\060\037\006\003\125\004\012\023\030\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156\147\163\054\040\111\156\143\056\061\072\060\070\006\003\125\004\003\023\061\124\162\165\163\164\167\141\166\145\040\107\154\157\142\141\154\040\105\103\030\040\120\062\065\066\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\161\164\171
END

**CKA_SERIAL_NUMBER MULTILINE_OCTAL**
\002\014\015\152\137\010\077\050\134\076\225\337\135
END

**CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR**

**CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR**

**CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST**

**CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE**


**CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE**

**CKA_TOKEN CK_BBOOL CK_TRUE**

**CKA_PRIVATE CK_BBOOL CK_FALSE**

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END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Trustwave Global ECC P384 Certification Authority"
# Issuer: CN=Trustwave Global ECC P384 Certification Authority,O="Trustwave Holdings, Inc.",L=Chicago,ST=Illinois,C=US
# Subject: CN=Trustwave Global ECC P384 Certification Authority,O="Trustwave Holdings, Inc.",L=Chicago,ST=Illinois,C=US
# Not Valid After : Sat Aug 23 19:36:43 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Trustwave Global ECC P384 Certification Authority"
# Certificate "NAVER Global Root Certification Authority"

# Issuer: CN=NAVER Global Root Certification Authority,O=NAVER BUSINESS PLATFORM Corp.,C=KR
# Subject: CN=NAVER Global Root Certification Authority,O=NAVER BUSINESS PLATFORM Corp.,C=KR
# Not Valid Before: Fri Aug 18 08:58:42 2017
# Not Valid After : Tue Aug 18 23:59:59 2037

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "NAVER Global Root Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "NAVER Global Root Certification Authority"
# Issuer: CN=NAVER Global Root Certification Authority,O=NAVER BUSINESS PLATFORM Corp.,C=KR
# Subject: CN=NAVER Global Root Certification Authority,O=NAVER BUSINESS PLATFORM Corp.,C=KR
# Not Valid Before: Fri Aug 18 08:58:42 2017
# Not Valid After : Tue Aug 18 23:59:59 2037
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "NAVER Global Root Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL

END

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\156\040\101\165\164\150\157\162\151\164\171
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\001\224\060\036\120\115\015
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "AC RAIZ FNMT-RCM SERVIDORES SEGUROS"
#
# Issuer: CN=AC RAIZ FNMT-RCM SERVIDORES SEGUROS, OID.2.5.4.97=VATES-Q2826004J, OU=Ceres, O=FNMT-RCM, C=ES
# Subject: CN=AC RAIZ FNMT-RCM SERVIDORES SEGUROS, OID.2.5.4.97=VATES-Q2826004J, OU=Ceres, O=FNMT-RCM, C=ES
# Not Valid Before: Thu Dec 20 09:37:33 2018
# Not Valid After: Sun Dec 20 09:37:33 2043

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AC RAIZ FNMT-RCM SERVIDORES SEGUROS"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\170\060\011\113\060\003\125\004\006\023\002\105\123\061
\021\060\017\060\003\125\004\012\140\101\106\116\115\124\055\122
\103\115\061\160\060\014\006\003\125\004\013\140\050\103\145\162
\145\163\060\103\060\026\060\003\125\004\141\140\017\126\101\124
\105\123\055\121\062\070\062\066\060\060\064\112\061\054\060\052
\006\003\125\040\003\014\043\101\103\040\122\101\111\132\040\106
\116\115\124\055\122\103\115\040\123\105\122\126\111\104\117\122
\105\123\040\123\105\07\125\122\117\123
END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\170\060\011\13\060\003\125\004\006\023\002\105\123\061
\021\060\017\060\003\125\004\012\140\101\106\116\115\124\055\122
\103\115\061\160\060\014\006\003\125\004\013\140\050\103\145\162
\145\163\060\103\060\026\060\003\125\004\141\140\017\126\101\124
\105\123\055\121\062\070\062\066\060\060\064\112\061\054\060\052
\006\003\125\040\003\014\043\101\103\040\122\101\111\132\040\106
```
# Trust for "AC RAIZ FNMT-RCM SERVIDORES SEGUROS"

# Issuer: CN=AC RAIZ FNMT-RCM SERVIDORES SEGUROS, OID.2.5.4.97=VATES-Q2826004J, OU=Ceres, O=FNMT-RCM, C=ES


# Subject: CN=AC RAIZ FNMT-RCM SERVIDORES SEGUROS, OID.2.5.4.97=VATES-Q2826004J, OU=Ceres, O=FNMT-RCM, C=ES

# Not Valid Before: Thu Dec 20 09:37:33 2018

# Not Valid After: Sun Dec 20 09:37:33 2043

# Fingerprint (SHA-256):

# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AC RAIZ FNMT-RCM SERVIDORES SEGUROS"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\142\377\331\236\300\145\015\003\316\165\223\322\355\077\055\062
\311\343\345\112

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\031\066\234\122\003\057\322\321\273\043\314\335\036\022\125\273

END

CKA_ISSUER_MULTILINE_OCTAL
\060\170\061\013\060\011\006\000\125\004\006\023\002\105\123\061
\021\060\017\006\003\125\004\012\014\010\010\116\115\124\055\122
\103\115\061\016\060\014\006\003\125\004\013\014\005\103\145\162
\145\163\060\103\060\026\060\006\003\125\004\141\014\017\126\011\124
\105\123\055\121\062\070\062\066\060\060\064\12\061\054\060\052
\006\003\125\004\003\014\043\101\103\040\122\101\111\132\040\016
\116\115\124\055\122\103\115\040\123\105\122\126\111\104\117\122
\105\123\040\123\105\07\125\122\117\123

END

CKA_SERIAL_NUMBER_MULTILINE_OCTAL
\002\020\142\366\062\154\345\304\343\150\134\033\142\335\234\056
\235\225

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "GlobalSign Secure Mail Root R45"

#

# Issuer: CN=GlobalSign Secure Mail Root R45,O=GlobalSign nv-sa,C=BE
# Subject: CN=GlobalSign Secure Mail Root R45,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 18 00:00:00 2020
# Not Valid After: Sat Mar 18 00:00:00 2045

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Secure Mail Root R45"

CKA_SUBJECT MULTILINE_OCTAL
\060\122\060\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\050\060\046\006\003
\125\004\003\023\037\107\154\157\142\141\154\123\151\147\156\040
\123\145\143\165\162\145\040\115\141\154\040\122\157\157\164
\040\122\064\065
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\122\060\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\050\060\046\006\003
\125\004\003\023\037\107\154\157\142\141\154\123\151\147\156\040
\123\145\143\165\162\145\040\115\141\154\040\122\157\157\164
\040\122\064\065
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\166\123\376\125\114\120\253\237\215\062\265\035\003\217
\127\334
END

CKA_VALUE MULTILINE_OCTAL
\060\020\020\005\160\060\020\023\031\130\240\003\002\001\002\002\201\166
\123\376\250\114\120\253\237\215\062\265\035\003\217\127\334\060
\015\006\011\052\206\110\206\367\015\001\001\014\005\000\060\122
\061\113\006\001\110\006\003\125\004\006\023\002\102\105\061\031\060
\027\006\003\125\004\012\023\020\107\154\157\142\141\154\123\151
\147\156\040\156\166\055\163\141\061\050\060\046\006\003\125\004
\003\023\037\107\154\157\142\141\154\123\151\147\156\040\123\145
\143\165\162\145\040\115\141\154\040\122\157\157\164
\064\065\060\036\027\015\062\060\060\063\061\070\060\060\060\060
\060\060\132\027\015\064\065\060\063\061\070\060\060\060\060
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GlobalSign Secure Mail Root R45"
# Issuer: CN=GlobalSign Secure Mail Root R45,O=GlobalSign nv-sa,C=BE
# Subject: CN=GlobalSign Secure Mail Root R45,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 18 00:00:00 2020
# Not Valid After: Sat Mar 18 00:00:00 2045
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Secure Mail Root E45"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\166\030\321\363\200\044\075\122\100\306\021\152\255\127\167\011
\175\201\060\240
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\223\304\173\263\016\124\107\034\103\054\213\276\160\205\142\051
END
CKA_ISSUER MULTILINE_OCTAL
\060\122\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\105\060\046\006\003
\125\004\003\023\037\107\154\157\142\141\154\123\151\147\156\040
\123\145\143\165\162\145\040\115\141\151\154\040\122\157\157\164
\040\122\064\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\166\123\376\250\114\120\253\237\215\062\265\035\003\217
\127\334
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "GlobalSign Secure Mail Root E45"
#
# Issuer: CN=GlobalSign Secure Mail Root E45,O=GlobalSign nv-sa,C=BE
# Subject: CN=GlobalSign Secure Mail Root E45,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 18 00:00:00 2020
# Not Valid After : Sat Mar 18 00:00:00 2045
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Secure Mail Root E45"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\122\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\105\060\046\006\003
\125\004\003\023\037\107\154\157\142\141\154\123\151\147\156\040
\123\145\143\165\162\145\040\115\141\151\154\040\122\157\157\164
```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GlobalSign Secure Mail Root E45"
# Issuer: CN=GlobalSign Secure Mail Root E45,O=GlobalSign nv-sa,C=BE
# Subject: CN=GlobalSign Secure Mail Root E45,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 18 00:00:00 2020
# Not Valid After : Sat Mar 18 00:00:00 2045
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Secure Mail Root E45"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL \
030056037062117211337276376210211360223302304240 \
053147165041
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL \
30537430605623736412205505250244272373147062377
END
CKA_ISSUER MULTILINE_OCTAL \
06012206101306001010060031250004006023002102105061 \
0310600270060031250004012023020107154157142141154 \
123151147156040156166055163141061050060046006003 \
125004003023037107154157142141154123151147156040 \
1231451143165162145040115141151154040122157157164 \
040105064065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL \
0020201661233762520470352251066135326361236345270 \
220012
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "GlobalSign Root R46"
# Issuer: CN=GlobalSign Root R46, O=GlobalSign nv-sa, C=BE
# Subject: CN=GlobalSign Root R46, O=GlobalSign nv-sa, C=BE
# Not Valid Before: Wed Mar 20 00:00:00 2019
# Not Valid After: Tue Mar 20 00:00:00 2046

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root R46"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\061\013\006\003\125\004\002\010\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\105\163\141\061\034\106\132\060\003
\125\004\030\023\023\107\154\157\142\141\154\123\151\147\156\040
\122\157\157\164\040\122\064\066

END

CKA_ID UTF8 "0"

CKA_ISSUER_MULTILINE_OCTAL
\060\061\013\006\001\110\060\003\125\004\002\023\020\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\105\163\141\061\034\106\132\060\003
\125\004\030\023\023\107\154\157\142\141\154\123\151\147\156\040
\122\157\157\164\040\122\064\066

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\022\021\132\227\237\271\032\043\030\023\100\137\012\235\055\320
\337\045\147\321

END

CKA_VALUE_MULTILINE_OCTAL
\060\020\005\132\060\022\003\102\240\100\003\002\001\002\002\022\021
\132\227\271\327\043\030\023\100\137\012\235\055\320\337\045\147
\321\060\015\052\206\110\020\137\012\235\055\320\337\045\147
\321\060\015\052\206\110\020\137\012\235\055\320\337\045\147
\060\020\005\132\060\022\003\102\240\100\003\002\001\002\002\022\021
\132\227\271\327\043\030\023\100\137\012\235\055\320\337\045\147
\321\060\015\052\206\110\020\137\012\235\055\320\337\045\147
\060\020\005\132\060\022\003\102\240\100\003\002\001\002\002\022\021
\132\227\271\327\043\030\023\100\137\012\235\055\320\337\045\147
\060\020\005\132\060\022\003\102\240\100\003\002\001\002\002\022\021
\132\227\271\327\043\030\023\100\137\012\235\055\320\337\045\147
\060\020\005\132\060\022\003\102\240\100\003\002\001\002\002\022\021
\132\227\271\327\043\030\023\100\137\012\235\055\320\337\045\147
\060\020\005\132\060\022\003\102\240\100\003\002\001\002\002\022\021
\132\227\271\327\043\030\023\100\137\012\235\055\320\337\045\147
\060\020\005\132\060\022\003\102\240\100\003\002\001\002\002\022\021
\132\227\271\327\043\030\023\100\137\012\235\055\320\337\045\147
# Trust for "GlobalSign Root R46"
# Issuer: CN=GlobalSign Root R46,O=GlobalSign nv-sa,C=BE
# Subject: CN=GlobalSign Root R46,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 20 00:00:00 2019
# Not Valid After : Tue Mar 20 00:00:00 2046
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root R46"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\123\242\260\113\312\153\332\105\346\071\212\216\304\015\322\277
\167\303\242\220
END

END
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
0020022021322273272063156324274346044A150305015204
035230350103

END

CKA_VALUE MULTILINE_OCTAL
060202021310600202121240003002001002002022021
1322273272063156324274346044A15030501520435230350
1030600212060010052206111316075004003003060106061
010130600101060031250040060230022012105061031060027
00600312500410203202201071541571421141154123151147
1560401156166055163141061034060032006003125004003
02032031071541571421141154123151147156040122157157
1640401050640606003020715061071060063062060060
060060060606006132027015064066660663062060060060
060060060606006132060106061010600603125004006
0203020102105061031060027006003125004012023020107
1541571421141154123151147156040156166055163141061
034060320060031250040030230231071541571421141154
123151147156040122157157164040105064060601660060
020006007052206110316075002001006005053201004000
042003142000042340162613172673502362122167165064
1372245106247255062031062264007251047312224273014
32201202030733212112600227014160023011001216330352
1073252276262200053315374050015333254274244206067
355160160100001653522230131730561222340431500043006
1033542220571123204333373107024007350137224A147135
31117201074040243102060100060016006003125035017
001001377004004003060020012060601017006003125035023
0010013770040050600003001001377060030506003125035
0161004026040024061012220172663062353221041113200
2652423460372610221170332325060612006010052206110
1316075004003003003150000060114500206100003371124220
355223335721322402022320270220231276263236054366013
221124237112024261336614427427315012102301410033367
025213204140271123377122163477214274034002060074
371021324214116300301141302025114252253035013061
137073034343200022710406113436376163226057332226332
37601000726306421127400523736703632060356213160
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GlobalSign Root E46"
# Issuer: CN=GlobalSign Root E46,O=GlobalSign nv-sa,C=BE
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GLOBALTRUST 2020"
# Issuer: CN=GLOBALTRUST 2020,O=e-commerce monitoring GmbH,C=AT
# Serial Number:5a:4b:bd:5a:fb:4f:8a:5b:fa:65:e5
# Subject: CN=GLOBALTRUST 2020,O=e-commerce monitoring GmbH,C=AT
# Not Valid Before: Mon Feb 10 00:00:00 2020
# Not Valid After : Sun Jun 10 00:00:00 2040
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GLOBALTRUST 2020"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\320\147\301\023\121\041\006\003\125\004\006\023\020\107\114\117\102\011\114\124\122\125\123\124\040\062\060\062\060

END
# Certificate "ANF Secure Server Root CA"

# Issuer: CN=ANF Secure Server Root CA,OU=ANF CA Raiz,O=ANF Autoridad de Certificacion,C=ES,serialNumber=G63287510
# Serial Number: 0d:d3:e3:bc:6c:f9:6b:b1
# Subject: CN=ANF Secure Server Root CA,OU=ANF CA Raiz,O=ANF Autoridad de Certificacion,C=ES,serialNumber=G63287510
# Not Valid Before: Wed Sep 04 10:00:38 2019
# Not Valid After: Tue Aug 30 10:00:38 2039

CKA_CLASS CK OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK BBOOL CK_TRUE
CKA_PRIVATE CK BBOOL CK_FALSE
CKA_MODIFIABLE CK BBOOL CK_FALSE
CKA_ID UTF8 "0"

CKA_SERIAL_NUMBER MULTILINE OCTAL 00201313212751323731172123133372145345

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK BBOOL CK_FALSE

END


# Trust for "ANF Secure Server Root CA"
# Issuer: CN=ANF Secure Server Root CA,OU=ANF CA Raiz,O=ANF Autoridad de Certificacion,C=ES,serialNumber=G63287510
# Serial Number:0:d:d3:e3:bc:6c:f9:6b:b1
# Subject: CN=ANF Secure Server Root CA,OU=ANF CA Raiz,O=ANF Autoridad de Certificacion,C=ES,serialNumber=G63287510
# Not Valid Before: Wed Sep 04 10:00:38 2019
# Not Valid After : Tue Aug 30 10:00:38 2039
# Fingerprint (SHA-256):

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Certum EC-384 CA"
#
# Issuer: CN=Certum EC-384 CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
# Subject: CN=Certum EC-384 CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
# Not Valid Before: Mon Mar 26 07:24:54 2018
# Not Valid After : Thu Mar 26 07:24:54 2043
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum EC-384 CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\164\061\101\030\060\001\100\060\003\125\004\006\023\002\120\114\061
\041\060\037\006\000\125\004\012\023\030\101\163\163\145\143\157
\040\104\141\164\141\040\123\171\163\164\145\155\163\040\123\056
\101\006\010\047\060\045\006\000\125\004\013\023\036\103\145\162
\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\061\031\060\027\006
\003\125\004\003\023\020\103\145\162\164\165\155\040\105\103\055
\063\070\064\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\164\061\101\130\060\011\100\060\003\125\004\006\023\002\120\114\061
\041\060\037\006\000\125\004\012\023\030\101\163\163\145\143\157
\040\104\141\164\141\040\123\171\163\164\145\155\163\040\123\056
\101\006\010\047\060\045\006\000\125\004\013\023\036\103\145\162
\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\061\031\060\027\006
\003\125\004\003\023\020\103\145\162\164\165\155\040\105\103\055
\063\070\064\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\170\217\047\134\201\022\122\040\245\004\320\055\335\272
\163\364
END
Open Source Used In Edge Intelligence Edge_1.6

# Trust for “Certum EC-384 CA”
# Issuer: CN=Certum EC-384 CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
# Subject: CN=Certum EC-384 CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
# Not Valid Before: Mon Mar 26 07:24:54 2018
# Not Valid After : Thu Mar 26 07:24:54 2043
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum EC-384 CA"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\363\076\170\074\254\337\364\242\314\254\147\125\151\126\327\345
\026\074\341\355

END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\266\145\263\226\140\227\022\241\354\116\341\075\243\306\311\361

END

CKA_ISSUER MULTILINE_OCTAL
\060\164\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\041\060\037\006\003\125\004\012\023\030\010\163\163\145\143\157
\040\041\141\164\141\040\123\171\163\164\145\155\163\040\123\056
\101\056\060\104\070\045\006\003\125\004\013\023\036\103\145\162
\164\165\155\040\013\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\061\031\060\027\006
\003\125\004\003\023\020\013\145\162\164\165\155\040\105\103\055
\063\070\064\040\103\101

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\170\217\047\134\201\022\122\040\245\004\320\055\335\272
\163\364

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Certum Trusted Root CA"
#
# Issuer: CN=Certum Trusted Root CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
# Subject: CN=Certum Trusted Root CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
# Not Valid Before: Fri Mar 16 12:10:13 2018
# Not Valid After : Mon Mar 16 12:10:13 2043
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\172\061\013\060\001\110\006\003\125\004\006\023\002\120\114\061
\041\160\060\037\000\003\125\004\012\230\030\101\163\163\145\143\157
\040\104\141\164\141\1040\123\171\163\164\145\155\163\040\1230\56
\010\156\060\147\070\060\045\006\003\125\004\013\023\036\103\145\162
\164\165\150\040\103\145\162\164\151\164\151\143\141\164\151\157
\156\040\101\165\150\157\162\151\164\171\061\037\060\035\006
\003\125\004\003\023\026\103\145\162\164\165\155\040\124\162\165
\163\164\145\144\040\122\157\157\164\040\103\101

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\172\061\013\060\001\110\006\003\125\004\006\023\002\120\114\061
\041\160\060\037\000\003\125\004\012\230\030\101\163\163\145\143\157
\040\104\141\164\141\1040\123\171\163\164\145\155\163\040\1230\56
\010\156\060\147\070\060\045\006\003\125\004\013\023\036\103\145\162
\164\165\150\040\103\145\162\164\151\164\151\143\141\164\151\157
\156\040\101\165\150\157\162\151\164\171\061\037\060\035\006
\003\125\004\003\023\026\103\145\162\164\165\155\040\124\162\165
\163\164\145\144\040\122\157\157\164\040\103\101

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\036\277\131\120\270\311\200\067\114\000\637\353\125\117
\265\355

CKA_VALUE MULTILINE_OCTAL
\060\202\020\036\277\131\120\270\311\200\067\114\000\637\353\125\117
\265\355

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# Trust for "Certum Trusted Root CA"

# Issuer: CN=Certum Trusted Root CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
# Subject: CN=Certum Trusted Root CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
# Not Valid Before: Fri Mar 16 12:10:13 2018
# Not Valid After: Mon Mar 16 12:10:13 2043
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

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CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\310\203\104\300\030\256\237\314\361\207\267\217\042\321\305\327
\105\204\272\345
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\121\341\302\347\376\114\204\257\131\016\057\364\124\157\352\051
END
CKA_ISSUER MULTILINE_OCTAL
\060\172\061\013\060\003\125\004\006\023\002\120\114\061
\041\060\037\006\003\125\004\012\023\030\101\163\163\145\143\157
\040\104\141\164\141\040\123\171\163\164\145\155\163\040\123\056
\101\056\016\047\060\045\006\003\125\004\013\023\036\103\145\162
\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\106\103\060\035\006
\003\125\004\003\023\026\103\145\162\164\165\155\040\124\162\165
\163\164\145\144\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\036\277\131\120\270\311\120\067\114\006\367\353\125\117
\265\355
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "TunTrust Root CA"
#
# Issuer: CN=TunTrust Root CA,O=Agence Nationale de Certification Electronique,C=TN
# Subject: CN=TunTrust Root CA,O=Agence Nationale de Certification Electronique,C=TN
# Not Valid Before: Fri Apr 26 08:57:56 2019
# Not Valid After : Tue Apr 26 08:57:56 2044
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TunTrust Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\141\061\013\060\003\125\004\006\023\002\124\116\101
\067\060\065\006\003\125\004\012\014\056\101\147\145\156\143\145
\040\116\141\164\151\157\156\141\154\145\040\144\145\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\105\154\145\143
Open Source Used In Edge Intelligence Edge_1.6

# Trust for "TunTrust Root CA"

# Issuer: CN=TunTrust Root CA,O=Agence Nationale de Certification Electronique,C=TN
# Subject: CN=TunTrust Root CA,O=Agence Nationale de Certification Electronique,C=TN
# Not Valid Before: Fri Apr 26 08:57:56 2019
# Not Valid After : Tue Apr 26 08:57:56 2044

# Fingerprint (SHA-256):


CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TunTrust Root CA"

CKA_CERNOBJECT_CLASS CKO_NSS_TRUST

CKA_ISSUER MULTILINE_OCTAL
\317\351\160\204\017\340\016\017\235\366\014\177\054\113\356\040
\106\064\234\273

# CKA_CERT_HASH_MULTILINE_OCTAL
205023|271|220|133|066|134|266|136|270|132|370|340|061|127|264

# CKA_ISSUER MULTILINE_OCTAL
\060\014|\061|013|060|011|006\003\125\004\006\023\002|124|116|061
\067|060|065|006|003|\125|004|012|014|056|101|147|145|156|143|145
\040|011|161|141|151|151|157|156|141|154|145|140|144|143|040|103|145
\162|161|151|146|151|143|141|164|151|157|156|140|105|154|145|143
\164|162|157|156|151|161|165|145|061|031|060|027|006|003|\125|004
\003|014|020|124|165|156|124|162|165|163|164|040|122|157|157|164
Certificate "HARICA TLS RSA Root CA 2021"

# Issuer: CN=HARICA TLS RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Subject: CN=HARICA TLS RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 10:55:38 2021
# Not Valid After: Mon Feb 13 10:55:37 2045
# Fingerprint (SHA-256):
# Certificate "HARICA TLS RSA Root CA 2021"
# Trust for "HARICA TLS RSA Root CA 2021"
# Issuer: CN=HARICA TLS RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Subject: CN=HARICA TLS RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 10:55:38 2021
# Not Valid After : Mon Feb 13 10:55:37 2045
# Fingerprint (SHA-256):

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Certificate "HARICA TLS RSA Root CA 2021"
# Issuer: CN=HARICA TLS RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Subject: CN=HARICA TLS ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 11:01:10 2021
# Not Valid After : Mon Feb 13 11:01:09 2045
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA TLS ECC Root CA 2021"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\154\061\013\060\001\110\060\003\125\004\006\023\002\107\122\061
\067\060\065\006\000\03\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\044\060\042\060\003\125\004
\003\014\033\110\101\122\111\110\103\101\040\124\114\123\040\105\103
\103\040\122\157\157\164\040\103\101\040\062\060\062\061
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\154\061\013\060\001\110\060\003\125\004\006\023\002\107\122\061
\067\060\065\006\000\03\125\004\012\014\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\044\060\042\060\003\125\004
\003\014\033\110\101\122\111\110\103\101\040\124\114\123\040\105\103
\103\040\122\157\157\164\040\103\101\040\062\060\062\061
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\147\164\235\215\167\330\073\152\333\042\364\377\131\342
\277\316
END

CKA_VALUE MULTILINE_OCTAL
\060\202\002\124\060\022\001\133\240\003\002\001\002\000\020\147
\164\235\215\167\333\073\152\333\042\364\377\131\342\277\316\060
\012\006\010\052\006\110\316\075\004\000\003\006\015\061\130\060
\101\006\031\125\004\006\023\002\107\122\061\067\060\065\006\003
\125\004\012\014\056\110\145\154\154\145\156\151\143\040\101\143
\141\144\145\155\151\143\040\141\156\144\040\122\145\163\145\141
\162\143\150\040\111\156\163\164\151\164\165\151\157\156\163
\040\103\101\061\044\060\042\060\063\125\004\003\014\033\110\101
\122\111\103\101\040\124\114\123\040\105\031\030\040\122\157\157
\164\040\103\101\040\062\060\062\061\060\063\042\157\061\061
\062\061\071\061\061\060\061\061\060\013\027\015\062\061\060
\061\063\061\061\060\061\060\071\132\060\154\061\013\060\011\006
# Trust for "HARICA TLS ECC Root CA 2021"

# Issuer: CN=HARICA TLS ECC Root CA 2021, O=Hellenic Academic and Research Institutions CA, C=GR
# Subject: CN=HARICA TLS ECC Root CA 2021, O=Hellenic Academic and Research Institutions CA, C=GR
# Not Valid Before: Fri Feb 19 11:01:10 2021
# Not Valid After: Mon Feb 13 11:01:09 2045

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA TLS ECC Root CA 2021"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\274\260\301\235\351\230\222\160\031\070\127\351\215\247\264\135
\156\356\001\110
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\256\367\114\345\146\065\321\267\233\214\042\223\164\323\113\260
END

CKA_ISSUER MULTILINE_OCTAL
\060\154\061\13\060\01\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\11\014\154\154\145\156
\151\143\040\101\143\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\11\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\044\060\042\006\003\125\004
\003\014\033\110\101\122\111\103\101\040\124\114\123\040\105\103
\103\040\122\157\157\164\040\103\101\040\062\060\062\061
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\147\164\235\215\167\330\073\152\333\042\364\377\131\342
\277\316
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "HARICA Client RSA Root CA 2021"
#
# Issuer: CN=HARICA Client RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Subject: CN=HARICA Client RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 10:58:46 2021
# Not Valid After : Mon Feb 13 10:58:45 2045
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA Client RSA Root CA 2021"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\157\061\103\060\01\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\11\014\154\154\145\156
\151\143\040\101\143\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\11\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\047\060\045\006\003\125\004
\003\014\036\110\101\122\111\103\101\040\124\114\123\040\105\103
\103\040\122\157\157\164\040\103\101\040\062\060\062
\061
# Trust for "HARICA Client RSA Root CA 2021"
# Issuer: CN=HARICA Client RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Subject: CN=HARICA Client RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 10:58:46 2021
# Not Valid After : Mon Feb 13 10:58:45 2045
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA Client RSA Root CA 2021"
CKA_ISSUER MULTILINE_OCTAL
\112\310\301\076\231\365\226\230\070\110\045\241\025\260\033\327
\342\204\030\133\366\161\065\232\150\173\100\314\030\134\014\044
\235\324\225\065\231\252\106\352\256\254\277\364\024\031\044\350
\214\354\334\365\274\006\150\212\052\014\005\137\012\227\165\247
\334\176\030\375\327\172\030\337\060\321\070\113\037\260\230\160
\277\114\171\163\360\015\040\061\245\244\227\035\254\277\316\154
\041\112\276\047\043\147\363\006\126\201\101\221\162\66\341\003
\005\063\054\332\026\010\115\116\120\043\255\037\245\305\324\172
\376\52\011\354\247\050\140\213\106\174\265\352\233\335\117\371
\347\153\025\062\101\317\103\333\345\047\334\004\126\156\157\106
\025\361\112\66\055\350\134\014\163\303\043\201\070\040\313\311\014
\151\317\054\253\073\204\140\063\031\122\375\151\024\063
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

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CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\125\122\370\036\333\033\044\054\236\273\226\030\315\002
\050\076
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "HARICA Client ECC Root CA 2021"
#
# Issuer: CN=HARICA Client ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Subject: CN=HARICA Client ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 11:03:34 2021
# Not Valid After: Mon Feb 13 11:03:33 2045
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA Client ECC Root CA 2021"

# Certificate "HARICA Client ECC Root CA 2021"
#
# Issuer: CN=HARICA Client ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Subject: CN=HARICA Client ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 11:03:34 2021
# Not Valid After: Mon Feb 13 11:03:33 2045
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA Client ECC Root CA 2021"

# Certificate "HARICA Client ECC Root CA 2021"
#
# Issuer: CN=HARICA Client ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Subject: CN=HARICA Client ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 11:03:34 2021
# Not Valid After: Mon Feb 13 11:03:33 2045
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA Client ECC Root CA 2021"

# Certificate "HARICA Client ECC Root CA 2021"
#
# Issuer: CN=HARICA Client ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Subject: CN=HARICA Client ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 11:03:34 2021
# Not Valid After: Mon Feb 13 11:03:33 2045
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA Client ECC Root CA 2021"

# Certificate "HARICA Client ECC Root CA 2021"
#
# Issuer: CN=HARICA Client ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Subject: CN=HARICA Client ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 11:03:34 2021
# Not Valid After: Mon Feb 13 11:03:33 2045
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA Client ECC Root CA 2021"

# Certificate "HARICA Client ECC Root CA 2021"
#
# Issuer: CN=HARICA Client ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Subject: CN=HARICA Client ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 11:03:34 2021
# Not Valid After: Mon Feb 13 11:03:33 2045
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA Client ECC Root CA 2021"

# Certificate "HARICA Client ECC Root CA 2021"
#
# Issuer: CN=HARICA Client ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Subject: CN=HARICA Client ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 11:03:34 2021
# Not Valid After: Mon Feb 13 11:03:33 2045
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA Client ECC Root CA 2021"
# Trust for "HARICA Client ECC Root CA 2021"
# Issuer: CN=HARICA Client ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Subject: CN=HARICA Client ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 11:03:34 2021
# Not Valid After : Mon Feb 13 11:03:33 2045
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA Client ECC Root CA 2021"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\276\144\323\332\024\113\322\155\257\217\333\246\246\162\370
\336\046\371\000
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\255\270\120\246\251\202\172\154\075\032\252\244\322\143\244\104
END
CKA_ISSUER MULTILINE_OCTAL
\060\157\061\103\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\04\056\110\145\154\154\151\156
\151\143\040\111\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\047\060\045\006\003\125\004
\003\014\036\110\101\122\111\103\101\040\103\154\151\145\156\164
\040\105\103\103\040\122\157\157\164\040\103\101\040\062\060\062
\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\066\150\331\130\341\142\127\036\322\031\104\210\346\020
\175\360
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Autoridad de Certificacion Firmaprofesional CIF A62634068"
# Issuer: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
# Serial Number:1b:70:ee9:d2:ff:ae:6c:71
# Subject: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
# Not Valid Before: Tue Sep 23 15:22:07 2014
# Not Valid After : Mon Sep 05 15:22:07 2036
# Fingerprint (SHA-256):
# Trust for "Autoridad de Certificacion Firmaprofesional CIF A62634068"

# Issuer: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES

# Serial Number:1b:70:e9:d2:ff:ae:6c:71

# Subject: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES

# Not Valid Before: Tue Sep 23 15:22:07 2014

# Not Valid After : Mon May 05 15:22:07 2036

# Fingerprint (SHA-256):


CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Autoridad de Certificacion Firmaprofesional CIF A62634068"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\013\276\302\047\042\111\313\071\252\333\065\134\123\343\214\256
\170\377\266\376
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\013\276\302\047\042\111\313\071\252\333\065\134\123\343\214\256
END
CKA_ISSUER MULTILINE_OCTAL
\060\121\061\013\060\001\010\006\003\125\004\003\014\071\010\165\164\157\162\151
\144\141\144\145\140\010\013\145\162\164\151\146\151\143\141
\143\151\157\156\040\106\151\162\157\146\145\163
\151\157\156\141\154\040\010\011\106\062\066\063\064
\060\066\070
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\033\160\351\322\377\256\154\161
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "vTrus ECC Root CA"
#
# Issuer: CN=vTrus ECC Root CA,O="iTrusChina Co.,Ltd.",C=CN
# Subject: CN=vTrus ECC Root CA,O="iTrusChina Co.,Ltd.",C=CN
# Not Valid Before: Tue Jul 31 07:26:44 2018
# Not Valid After : Fri Jul 31 07:26:44 2043
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "vTrus ECC Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\013\060\001\110\006\003\125\004\006\023\002\103\116\061
\034\060\032\000\003\125\004\012\023\023\015\124\162\165\163\103
\150\151\156\141\040\103\157\056\054\114\164\144\056\061\032\060
\030\006\003\125\004\003\023\021\166\124\162\165\163\040\055\103
\103\040\122\157\157\164\040\103\101

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# Trust for "vTrus ECC Root CA"

# Issuer: CN=vTrus ECC Root CA,O="iTrusChina Co.,Ltd.".,C=CN
# Subject: CN=vTrus ECC Root CA,O="iTrusChina Co.,Ltd.".,C=CN
# Not Valid Before: Tue Jul 31 07:26:44 2018
# Not Valid After : Fri Jul 31 07:26:44 2043
# Fingerprint (SHA-256):

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Certificate "vTrus Root CA"

# Issuer: CN=vTrus Root CA,O="iTrusChina Co.,Ltd.".,C=CN
# Subject: CN=vTrus Root CA,O="iTrusChina Co.,Ltd.".,C=CN

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "vTrus ECC Root CA"

END

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "vTrus Root CA"

END

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# Not Valid Before: Tue Jul 31 07:24:05 2018
# Not Valid After : Fri Jul 31 07:24:05 2043
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "vTrus Root CA"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\103\061\013\060\011\006\003\125\000\004\006\023\002\103\116\061
\034\060\032\006\003\125\000\012\023\023\151\124\162\165\163\103
\150\151\156\141\040\103\157\056\054\114\164\144\056\061\026\060
\024\006\003\125\004\003\023\015\166\124\162\165\163\040\122\157
\157\164\040\103\101
END

CKA_ID UTF8 "0"

CKA_ISSUER_MULTILINE_OCTAL
\060\103\061\013\060\011\006\003\125\000\004\006\023\002\103\116\061
\034\060\032\006\003\125\000\012\023\023\151\124\162\165\163\103
\150\151\156\141\040\103\157\056\054\114\164\144\056\061\026\060
\024\006\003\125\004\003\023\015\166\124\162\165\163\040\122\157
\157\164\040\103\101
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\103\343\161\023\330\263\131\024\135\267\316\214\375\065
\137\51\274\005\215\105
END

CKA_VALUE MULTILINE_OCTAL
\060\202\005\126\060\02\200\003\076\240\003\002\001\002\002\024\103
\343\161\023\330\263\131\024\135\267\316\214\375\065\157\274
\005\215\105\056\060\015\006\011\105\206\110\206\367\015\001\001\013
\005\000\060\013\060\011\006\003\125\004\006\023\002\103
\116\061\034\060\032\006\003\125\004\012\023\023\151\124\162\165
\163\103\150\151\156\141\040\103\157\056\054\114\164\144\056\061
\026\060\024\006\003\125\004\003\023\015\166\124\162\165\163\040
\122\157\157\164\040\103\101\060\036\027\156\010\070\060\067\063
\061\016\060\067\062\064\060\065\132\027\156\064\063\060\067\063\061
\060\067\062\064\060\065\132\060\103\061\101\060\011\006\003\125
\004\006\023\002\103\116\061\034\060\032\006\003\125\004\012\023
\023\151\124\162\165\163\103\150\151\156\141\040\103\157\056\054
\114\164\144\056\012\060\024\006\003\125\004\003\023\015\166
\124\162\165\163\040\122\157\157\164\040\103\101\060\020\020\042
\060\015\006\011\052\206\110\206\367\015\001\001\000\003
\202\002\017\000\006\020\002\012\002\020\001\000\027\125\174
\141\132\270\035\004\142\005\240\256\154\267\160\264\101\352\113
# Trust for "vTrus Root CA"

# Issuer: CN=vTrus Root CA,O="iTrusChina Co.,Ltd.",C=CN
# Subject: CN=vTrus Root CA,O="iTrusChina Co.,Ltd.",C=CN
# Not Valid Before: Tue Jul 31 07:24:05 2018
# Not Valid After : Fri Jul 31 07:24:05 2043
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "vTrus Root CA"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

CKA_CERT_MD5_HASH MULTILINE_OCTAL

CKA_ISSUER MULTILINE_OCTAL


# Certificate "ISRG Root X2"

# Issuer: CN=ISRG Root X2,O=Internet Security Research Group,C=US
# Subject: CN=ISRG Root X2,O=Internet Security Research Group,C=US
# Not Valid Before: Fri Sep 04 00:00:00 2020
# Not Valid After : Mon Sep 17 16:00:00 2040
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKC_X_509
CKA_ID UTF8 "0"

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\060\013\061\013\060\011\006\000\03\125\004\006\023\002\103\116\061
\034\060\032\060\003\125\004\012\023\023\151\124\162\165\163\103
\150\151\156\141\040\103\157\056\054\114\164\144\056\061\026\060
\024\006\003\125\004\003\023\015\166\124\162\165\163\040\122\157
\157\164\040\103\101

END

CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "ISRG Root X2"

CKA_CLASS CK_OBJECT_CLASS CKC_X_509
CKA_ID UTF8 "0"

CKAIssuerUtilMultilineOctal
\060\17\061\13\060\011\006\000\03\125\004\006\023\002\125\123\061
\051\060\047\006\003\125\004\12\023\040\11\156\164\145\162\156
\145\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145
\141\162\143\150\040\107\162\157\165\160\061\025\060\023\006\003
\125\004\003\123\14\11\123\122\107\040\122\157\157\164\040\130
\062

END

CKA_ID UTF8 "0"
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\001\241\240\000\003\002\000\100\002\002\020\010
\322\352\355\247\200\301\054\154\351\057
\207\122
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\033\060\202\001\241\240\000\003\002\000\100\002\002\020\010
\322\352\355\247\200\301\054\154\351\057\207\122\060
\012\006\010\052\206\110\316\075\004\003\003\006\011\076\101\036
\011\006\003\125\004\006\023\002\021\125\123\106\105\060\047\006\003
\125\004\012\023\040\011\015\016\041\145\116\154\040\012\133\145
\143\145\162\151\164\171\040\122\145\163\145\141\116\143\150\040
\107\162\157\165\160\060\102\50\060\23\006\003\125\004\003\023\014
\111\123\122\107\040\122\157\157\164\040\130\020\060\036\027\015
\062\060\060\071\060\064\060\060\060\060\060\060\060\132\020\155\064
\060\060\071\061\067\061\066\060\060\060\060\060\132\020\117\061\013
\060\011\000\060\031\25\004\006\023\002\125\123\060\051\060\047\006
\003\125\004\012\023\040\011\115\164\145\145\156\145\164\040\123
\145\143\165\162\151\164\171\040\122\145\163\145\141\116\143\150
\040\107\162\157\165\160\061\025\060\023\006\003\125\004\003\023
\104\111\123\040\122\157\157\164\040\130\062\060\166\060
\020\060\007\052\206\110\316\075\002\001\060\050\053\201\004\000
\042\003\012\000\004\315\233\325\237\020\023\012\354\011\112\363
\026\112\076\134\317\167\254\336\147\005\015\035\007\266\334\026
\373\312\321\024\333\333\342\161\140\304\272\105\225\021\121\163\352
\006\333\367\052\026\034\244\271\130\035\050\062\340\000\340\036\202
\030\070\213\327\105\330\012\152\156\346\000\167\333\020\121\175
\042\330\012\156\232\133\167\337\360\372\101\354\071\334\165\312
\150\007\014\373\352\243\102\060\100\060\160\060\03\125\035\017
\001\010\037\004\004\003\000\02\001\001\060\060\17\060\060\315\250\023
\001\010\037\004\004\005\060\03\001\001\013\77\060\35\006\003\125\035
\016\004\026\004\024\017\102\226\256\363\113\110\073\372\222\370
\236\214\317\155\123\251\162\067\225\060\12\060\010\052\206\110
\316\075\040\003\003\003\150\000\060\145\002\060\173\171\116\116
\120\204\302\104\207\106\033\105\160\377\130\23\133\364\375\244
\322\125\246\004\055\164\326\064\274\101\123\120\137\010\047\012
\264\276\047\165\006\257\022\056\165\230\215\374\002\06\000\0213
\365\167\154\324\310\145\252\340\013\054\356\024\235\047\067\244
\371\123\245\121\344\015\203\327\370\220\061\133\102\237\012\365
\376\256\000\150\347\214\111\017\266\157\133\130\253\362\347
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "ISRG Root X2"
# Issuer: CN=ISRG Root X2,O=Internet Security Research Group,C=US
Subject: CN=ISRG Root X2,O=Internet Security Research Group,C=US
# Not Valid Before: Fri Sep 04 00:00:00 2020
# Not Valid After: Mon Sep 17 16:00:00 2040
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ISRG Root X2"

# Certificate "HiPKI Root CA - G1"
# Issuer: CN=HiPKI Root CA - G1,O="Chunghwa Telecom Co., Ltd.",C=TW
# Subject: CN=HiPKI Root CA - G1,O="Chunghwa Telecom Co., Ltd.",C=TW
# Not Valid Before: Fri Feb 22 09:46:04 2019
# Not Valid After: Thu Dec 31 15:59:59 2037
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "HiPKI Root CA - G1"
# Issuer: CN=HiPKI Root CA - G1,O="Chunghwa Telecom Co., Ltd.",C=TW
# Subject: CN=HiPKI Root CA - G1,O="Chunghwa Telecom Co., Ltd.",C=TW
# Not Valid Before: Fri Feb 22 09:46:04 2019
# Not Valid After : Thu Dec 31 15:59:59 2037
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HiPKI Root CA - G1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\152\222\344\250\356\033\354\226\105\067\343\051\127\111\315\226
\343\345\322\140
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\151\105\337\026\145\113\350\150\023\217\166\137\377\200\236\323
END

CKA_ISSUER MULTILINE_OCTAL
\060\017\066\013\060\001\110\066\003\125\004\006\023\002\124\127\061
\043\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150
\167\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040
\141\164\144\056\061\033\060\031\006\003\125\004\003\014\022\110

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# Certificate "GlobalSign ECC Root CA - R4"

# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4
# Not Valid Before: Tue Nov 13 00:00:00 2012
# Not Valid After : Tue Jan 19 03:14:07 2038
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign ECC Root CA - R4"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_VALUE MULTILINE_OCTAL
\060\022\001\013\034\046\060\02\02\02\02\03\03\03\03\03\03\02\00\02\02\02\015\002
\003\034\176\065\077\223\375\245\011\044\262\246\060\01\012\006\010
\052\206\110\031\067\050\040\003\022\060\12\006\014\044\060\042\006\003
\125\004\013\023\033\107\154\157\142\141\154\123\151\147\156\040
\105\103\010\040\012\22\157\157\164\040\103\010\040\055\040\122\064
\061\102\02\02\060\021\006\003\125\004\012\023\02\107\154\157\142\141
\154\123\151\147\156\060\12\023\060\02\110\060\03\125\004\013\023\012
\107\154\157\142\141\154\123\151\147\156\060\036\027\01\056\106\062
\061\061\061\063\060\060\060\066\060\060\060\060\060\132\02\071\156\070\060
\061\061\070\160\063\060\106\04\060\067\13\02\060\12\026\01\040\060\042
\006\003\125\004\013\023\033\107\154\157\142\141\154\123\151\147
\156\040\105\103\030\040\012\22\157\157\164\040\103\010\040\055\040
\122\064\060\102\023\060\021\006\003\125\004\012\023\02\107\154\157
\142\141\154\123\151\147\156\061\010\223\060\02\110\060\03\125\004\003
\023\012\107\154\157\142\141\154\123\151\147\156\060\131\060\023
\006\000\052\206\010\316\075\002\001\010\042\026\010\110\316\075
\003\001\1007\003\120\000\004\100\301\344\256\232\345\071\007\011\026\312\143\261
\172\016\037\022\12\011\27\031\127\316\102\372\163\241\136\145\102\377
\036\030\1000\262\156\163\016\377\307\04\145\030\240\252\331\161
\077\250\324\271\136\020\035\243\102\060\100\060\16\006\003\125
\035\017\001\1001\377\004\004\003\020\110\206\060\17\006\003\125
\035\023\010\1001\377\004\005\060\003\110\137\76\006\350\060\003
\125\035\016\004\026\004\024\12\24\60\173\255\105\270\342\100\177
\037\230\12\156\373\276\063\311\074\243\204\325\060\12\006\010\052
\206\011\031\067\050\040\003\020\031\070\000\060\10\040\002\040\042\117
\164\162\271\140\257\361\134\134\243\124\026\005\120\137\303\136\073
\156\141\164\357\276\001\130\027\60\031\101\131\141\202\062\002\040
\046\235\124\143\100\336\067\140\120\317\310\330\355\235\202\256
\067\230\274\243\217\114\114\251\064\053\154\357\373\225\233\046

END

CKA_NSS_Mozilla_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for “GlobalSign ECC Root CA - R4”
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4
# Not Valid Before: Tue Nov 13 00:00:00 2012
# Not Valid After : Tue Jan 19 03:14:07 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE


\066\144\221\135\260\150\030\352\221\141\311\167\250\027\304\311
\307\245\374\125\13\363\336\167\271\145\075\047\150\320\314\153
\372\123\235\341\221\032\311\135\032\226\155\062\207\355\003\040
\310\002\316\132\276\313\352\375\262\115\304\057\033\337\137\172
\365\370\213\306\356\061\107\204\51\21\125\147\215\144\062\173\351
\236\030\202\272\052\055\351\036\264\340\010\006\242\374\147\257
\037\042\000\016\337\040\012\257\235\124\113\241\315\377\200\107
\260\077\135\357\033\126\275\227\041\226\055\012\321\136\250\070
\002\107\154\271\136\346\366\043\045\270\240\152\232\053\167\010\372
\304\261\050\220\046\013\010\074\342\176\252\327\075\157\272\061
\210\012\000\053\347\265\241\111\356\240\015\124\173\346\047\145
\231\040\042\125\243\274\373\030\020\262\273\221\157\014\355\203\121
\114\351\131\342\040\140\305\032\145\222\202\124\363\020\037\016
\212\227\276\167\202\155\077\217\035\135\274\111\047\275\314\117
\017\341\131\166\206\004\043\305\300\214\022\133\375\333\204\240
\044\361\110\037\77\144\174\320\276\134\026\321\357\231\125\300\037
\373\333\256\274\070\042\006\046\144\332\322\227\016\077\050\025
\104\250\117\000\312\360\232\314\171\241\152\264\076\074\333\225
\354\265\323\132\330\201\123\135\103\030\067\353\263\273\321\130
\142\101\363\140\322\217\252\170\225\124\040\030\132\056\164\053
\325\321\276\030\151\300\254\325\244\317\071\272\121\204\003\145
\351\142\300\142\376\330\115\125\226\342\320\21\372\110\064\021
\354\236\355\005\035\344\310\326\035\206\313
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GTS Root R2"
# Issuer: CN=GTS Root R2,O=Google Trust Services LLC,C=US
# Serial Number:02:03:e5:ae:c5:8d:04:25:1a:ab:11:25:aa
# Subject: CN=GTS Root R2,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After : Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R2"

END

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\232\104\111\166\062\333\336\372\320\274\373\132\173\027\275\236
\126\011\044\224
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\036\071\130\123\346\036\051\202\013\312\122\125\066\135\127\334
# Certificate "GTS Root R3"

# Issuer: CN=GTS Root R3,O=Google Trust Services LLC,C=US
# Subject: CN=GTS Root R3,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After : Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

END
# Trust for "GTS Root R3"

# Issuer: CN=GTS Root R3,O=Google Trust Services LLC,C=US
# Subject: CN=GTS Root R3,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After : Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\355\345\161\200\053\310\222\271\133\203\074\322\062\150\077\011
\315\240\036\106
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\076\347\235\130\002\224\106\121\224\345\340\042\112\123\347\163
END

CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\023\023\125\120\012
\042\060\040\006\033\125\004\012\023\031\107\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\063
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\002\003\345\270\202\353\040\370\045\047\155\075\146
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "GTS Root R4"
#
# Issuer: CN=GTS Root R4,O=Google Trust Services LLC,C=US
# Subject: CN=GTS Root R4,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After: Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R4"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

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# Trust for "GTS Root R4"
# Issuer: CN=GTS Root R4,O=Google Trust Services LLC,C=US
# Serial Number:02:03:e5:06:ef:63:1a:9c:72:90:50:52
# Subject: CN=GTS Root R4,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After : Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R4"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\167\323\003\147\265\340\014\025\366\014\070\141\337\174\341\073
\222\106\115\107

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\103\226\203\167\031\115\166\263\235\145\122\344\035\042\245\350

CKA_ISSUER MULTILINE_OCTAL
\060\017\061\013\060\001\100\060\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\064

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\002\003\345\300\150\357\143\032\234\162\220\120\122

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Found in path(s):
* /opt/cola/permits/1255209723_1642677937.1/0/ca-certificates-20211220-r0-tgz/src/ca-certificates-20211220/certdata.txt
* /opt/cola/permits/1255209723_1642677937.1/0/ca-certificates-20211220-r0-tgz/src/ca-certificates-20211220-tar-
bz2/ca-certificates-20211220/certdata.txt
No license file was found, but licenses were detected in source scan.

/* c_rehash.c - Create hash symlinks for certificates
 * C implementation based on the original Perl and shell versions
 * 
 * Copyright (c) 2013-2014 Timo Teräs <timo.teras@iki.fi>
 * All rights reserved.
 * 
 * This software is licensed under the MIT License.
 * Full license available at: http://opensource.org/licenses/MIT
 */

Found in path(s):
* /opt/cola/permits/1255209723_1642677937.1/0/ca-certificates-20211220-r0-tgz/src/ca-certificates-
  20211220/c_rehash.c
* /opt/cola/permits/1255209723_1642677937.1/0/ca-certificates-20211220-r0-tgz/src/ca-certificates-20211220-tar-
  bz2/ca-certificates-20211220/c_rehash.c

1.40 popsicle-transport-xhr 1.0.2

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1.41 types/vscode 1.43.0

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1.45 libtls-standalone 2.9.1-r1

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1.46 mosquitto 2.0.14

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1.47 popsicle-user-agent 1.0.0

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1.48 open62541 v1.2.3 dev-280-gff87c287

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```xml
<opc:TypeDictionary xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  <opc:Import Namespace="http://opcfoundation.org/UA/"/>
  <opc:StructuredType BaseTypes="ua:ExtensionObject" Name="ErrorRegisterBits">
    <opc:Documentation>Represents the values of the POWERLINK ErrorRegister</opc:Documentation>
    <opc:Field TypeName="opc:ByteString" Name="Value"/>
    <opc:Field TypeName="opc:ByteString" Name="ValidBits"/>
  </opc:StructuredType>
  <opc:StructuredType BaseTypes="ua:ExtensionObject" Name="PowerlinkAttribute">
    <opc:Documentation>Represents the POWERLINK entry attributes</opc:Documentation>
    <opc:Field TypeName="opc:ByteString" Name="Value"/>
    <opc:Field TypeName="opc:ByteString" Name="ValidBits"/>
  </opc:StructuredType>
  <opc:StructuredType BaseTypes="ua:ExtensionObject" Name="PowerlinkErrorEntryDataType">
    <opc:Documentation>Represents the entries of the POWERLINK Object ERR_History_ADOM (Object 1003h, SubIndex 1..254)</opc:Documentation>
    <opc:Field TypeName="opc:UInt16" Name="entryType"/>
    <opc:Field TypeName="opc:UInt16" Name="errorCode"/>
    <opc:Field TypeName="opc:UInt64" Name="timeStamp"/>
    <opc:Field TypeName="opc:UInt64" Name="additionalInformation"/>
  </opc:StructuredType>
  <opc:StructuredType BaseTypes="ua:ExtensionObject" Name="PowerlinkIpAddressDataType">
    <opc:Documentation>Structure DataType PowerlinkIpAddressDataType to represent POWERLINK Objects of the POWERLINK data type IP_ADDRESS</opc:Documentation>
    <opc:Field TypeName="opc:Byte" Name="b1"/>
    <opc:Field TypeName="opc:Byte" Name="b2"/>
    <opc:Field TypeName="opc:Byte" Name="b3"/>
    <opc:Field TypeName="opc:Byte" Name="b4"/>
  </opc:StructuredType>
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    <opc:Documentation>Structure DataType PowerlinkPDOMappingEntryDataType to represent the entries of POWERLINK Objects like PDO_RxCommParam_00h_REC</opc:Documentation>
    <opc:Field TypeName="opc:UInt16" Name="length"/>
    <opc:Field TypeName="opc:UInt16" Name="offset"/>
    <opc:Field TypeName="opc:Byte" Name="reserved"/>
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    <opc:Field TypeName="opc:UInt16" Name="index"/>
  </opc:StructuredType>
  <opc:EnumeratedType LengthInBits="32" Name="PowerlinkNMTResetCmdEnumeration">
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  </opc:EnumeratedType>
</opc:TypeDictionary>
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</opc:StructuredType>
<opc:EnumeratedType LengthInBits="32" Name="AutoIdOperationStatusEnumeration">
<opc:EnumeratedValue Name="SUCCESS" Value="0"/>
<opc:EnumeratedValue Name="MISC_ERROR_TOTAL" Value="1"/>
<opc:EnumeratedValue Name="MISC_ERROR_PARTIAL" Value="2"/>
<opc:EnumeratedValue Name="PERMISSION_ERROR" Value="3"/>
<opc:EnumeratedValue Name="PASSWORD_ERROR" Value="4"/>
<opc:EnumeratedValue Name="REGION_NOT_FOUND_ERROR" Value="5"/>
<opc:EnumeratedValue Name="OP_NOT_POSSIBLE_ERROR" Value="6"/>
<opc:EnumeratedValue Name="OUT_OF_RANGE_ERROR" Value="7"/>
<opc:EnumeratedValue Name="NO_IDENTIFIER" Value="8"/>
<opc:EnumeratedValue Name="MULTIPLE_IDENTIFIERS" Value="9"/>
<opc:EnumeratedValue Name="READ_ERROR" Value="10"/>
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<opc:TypeDictionary
xmlns:opc="http://opcfoundation.org/BinarySchema/
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:ua="http://opcfoundation.org/UA/
xmlns:tns="http://opcfoundation.org/UA/
DefaultByteOrder=’LittleEndian’
TargetNamespace="http://opcfoundation.org/UA/"

</opc:Import Namespace="http://opcfoundation.org/BinarySchema/" />

<!-- Transport types begin -->

<opc:EnumeratedType Name="MessageType" LengthInBits="32">
  <opc:Documentation>Message Type and whether the message contains an intermediate
chunk</opc:Documentation>
  <opc:EnumeratedValue Name="ACK" Value="0x4B4341" />
  <opc:EnumeratedValue Name="HEL" Value="0x4C4548" />
  <opc:EnumeratedValue Name="MSG" Value="0x47534D" />
  <opc:EnumeratedValue Name="OPN" Value="0x4E504F" />
  <opc:EnumeratedValue Name="CLO" Value="0x4F4C35" />
  <opc:EnumeratedValue Name="ERR" Value="0x525245" />
  <opc:EnumeratedValue Name="INVALID" Value="0x0" />
</opc:EnumeratedType>

<opc:EnumeratedType Name="ChunkType" LengthInBits="32">
  <opc:Documentation>Type of the chunk</opc:Documentation>
  <opc:EnumeratedValue Name="FINAL" Value="0x46000000" />
  <opc:EnumeratedValue Name="INTERMEDIATE" Value="0x43000000" />
  <opc:EnumeratedValue Name="ABORT" Value="0x41000000" />
</opc:EnumeratedType>

<opc:StructuredType Name="TcpMessageHeader">
  <opc:Documentation>TCP Header</opc:Documentation>
  <opc:Field Name="MessageTypeAndChunkType" TypeName="opc:UInt32" />
  <opc:Field Name="MessageSize" TypeName="opc:UInt32" />
</opc:StructuredType>
<opc:StructuredType Name="TcpHelloMessage">
  <opc:Documentation>Hello Message</opc:Documentation>
  <opc:Field Name="ProtocolVersion" TypeName="opc:UInt32" />
  <opc:Field Name="ReceiveBufferSize" TypeName="opc:UInt32" />
  <opc:Field Name="SendBufferSize" TypeName="opc:UInt32" />
  <opc:Field Name="MaxMessageSize" TypeName="opc:UInt32" />
  <opc:Field Name="MaxChunkCount" TypeName="opc:UInt32" />
  <opc:Field Name="EndpointUrl" TypeName="opc:String" />
</opc:StructuredType>

<opc:StructuredType Name="TcpAcknowledgeMessage">
  <opc:Documentation>Acknowledge Message</opc:Documentation>
  <opc:Field Name="ProtocolVersion" TypeName="opc:UInt32" />
  <opc:Field Name="ReceiveBufferSize" TypeName="opc:UInt32" />
  <opc:Field Name="SendBufferSize" TypeName="opc:UInt32" />
  <opc:Field Name="MaxMessageSize" TypeName="opc:UInt32" />
  <opc:Field Name="MaxChunkCount" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="TcpErrorMessage">
  <opc:Documentation>Error Message</opc:Documentation>
  <opc:Field Name="Error" TypeName="opc:UInt32" />
  <opc:Field Name="Reason" TypeName="opc:String" />
</opc:StructuredType>

<opc:StructuredType Name="AsymmetricAlgorithmSecurityHeader">
  <opc:Documentation>Asymmetric Security Header</opc:Documentation>
  <opc:Field Name="SecurityPolicyUri" TypeName="opc:ByteString" />
  <opc:Field Name="SenderCertificate" TypeName="opc:ByteString" />
  <opc:Field Name="ReceiverCertificateThumbprint" TypeName="opc:ByteString" />
</opc:StructuredType>

<opc:StructuredType Name="SymmetricAlgorithmSecurityHeader">
  <opc:Documentation>Symmetric Security Header</opc:Documentation>
  <opc:Field Name="TokenId" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="SequenceHeader">
  <opc:Documentation>Secure Layer Sequence Header</opc:Documentation>
  <opc:Field Name="SequenceNumber" TypeName="opc:UInt32" />
  <opc:Field Name="RequestId" TypeName="opc:UInt32" />
</opc:StructuredType>

<!-- Transport types end -->

<opc:TypeDictionary>
<?xml version="1.0" encoding="utf-8" ?>
</opc:TypeDictionary>
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<opc:TypeDictionary xmlns:opc="http://opcfoundation.org/BinarySchema/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:ua="http://opcfoundation.org/UA/"
xmlns:tns="http://yourorganisation.org/test/"
DefaultByteOrder="LittleEndian"
TargetNamespace="http://yourorganisation.org/test/">
<opc:StructuredType Name="Point" BaseType="ua:ExtensionObject">
<opc:Field Name="x" TypeName="opc:Double" />
<opc:Field Name="y" TypeName="opc:Double" />
</opc:StructuredType>

<opc:StructuredType Name="NestedPoint" BaseType="ua:ExtensionObject">
<opc:Field Name="x" TypeName="opc:Double" />
<opc:Field Name="y" TypeName="opc:Double" />
<opc:Field Name="point1" TypeName="tns:Point" />
</opc:StructuredType>
<opc:StructuredType Name="PointWithArray" BaseType="ua:ExtensionObject">
  <opc:Field Name="x" TypeName="opc:Double" />
  <opc:Field Name="y" TypeName="opc:Double" />
  <opc:Field Name="z" TypeName="opc:Double" />
  <opc:Field Name="array1Size" TypeName="opc:UInt32" />
  <opc:Field Name="array1" TypeName="opc:Double" LengthField="array1Size" />
</opc:StructuredType>

<opc:StructuredType BaseType="ua:Union" Name="SelfContainingUnion">
  <opc:Field TypeName="opc:UInt32" Name="SwitchField" />
  <opc:Field SwitchField="SwitchField" TypeName="opc:Double" SwitchValue="1" Name="Double" />
  <opc:Field SwitchField="SwitchField" TypeName="opc:Int32" SwitchValue="2" Name="NoOfArray" />
  <opc:Field LengthField="NoOfArray" SwitchField="SwitchField" TypeName="tns:SelfContainingUnion" SwitchValue="2" Name="Array" />
</opc:StructuredType>

</opc:TypeDictionary>

<opc:TypeDictionary xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  TargetNamespace="http://opcfoundation.org/UA/AutoID/">
  <opc:Import Namespace="http://opcfoundation.org/UA/" />
  <opc:StructuredType BaseType="ua:ExtensionObject" Name="StructWithBitsWithoutOF">
    <opc:Field TypeName="opc:Bit" Name="Bit3" />
    <opc:Field TypeName="opc:CharArray" Name="AntennaName" />
  </opc:StructuredType>
  <opc:StructuredType BaseType="ua:ExtensionObject" Name="StructWithOFBitsNotAtBeginning">
    <opc:Field TypeName="opc:Double" Name="testDouble" />
    <opc:Field TypeName="opc:Bit" Name="AntennaNameSpecified" />
    <opc:Field Length="31" TypeName="opc:Bit" Name="Reserved1" />
    <opc:Field SwitchField="AntennaNameSpecified" TypeName="opc:CharArray" Name="AntennaName" />
  </opc:StructuredType>
  <opc:StructuredType BaseType="ua:ExtensionObject" Name="StructWithOFWithoutSpecified">
    <opc:Field TypeName="opc:Bit" Name="AntennaNameSpec" />
    <opc:Field Length="31" TypeName="opc:Bit" Name="Reserved1" />
    <opc:Field TypeName="opc:Double" Name="testDouble" />
    <opc:Field SwitchField="AntennaNameSpec" TypeName="opc:CharArray" Name="AntennaName" />
  </opc:StructuredType>
  <opc:StructuredType BaseType="ua:ExtensionObject" Name="StructWithOFWithoutSwitchField">
    <opc:Field TypeName="opc:Bit" Name="AntennaNameSpecified" />
    <opc:Field Length="31" TypeName="opc:Bit" Name="Reserved1" />
    <opc:Field TypeName="opc:Double" Name="testDouble" />
    <opc:Field TypeName="opc:CharArray" Name="AntennaName" />
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  <opc:StructuredType BaseType="ua:ExtensionObject" Name="StructWithOFWithoutReserved1">
    <opc:Field TypeName="opc:Bit" Name="AntennaNameSpecified" />
    <opc:Field Length="31" TypeName="opc:Bit" Name="Reserved1" />
    <opc:Field TypeName="opc:Double" Name="testDouble" />
    <opc:Field TypeName="opc:CharArray" Name="AntennaName" />
  </opc:StructuredType>
</opc:TypeDictionary>
<opc:StructuredType Name="NestedPoint" BaseType="ua:ExtensionObject">
  <opc:Field Name="x" TypeName="opc:Double" />
  <opc:Field Name="y" TypeName="opc:Double" />
  <opc:Field Name="point1" TypeName="tns:Point" />
</opc:StructuredType>

<opc:StructuredType Name="PointWithArray" BaseType="ua:ExtensionObject">
  <opc:Field Name="x" TypeName="opc:Double" />
  <opc:Field Name="y" TypeName="opc:Double" />
  <opc:Field Name="z" TypeName="opc:Double" />
  <opc:Field Name="NoOfArrayDimensions" TypeName="opc:Int32" />
  <opc:Field Name="array1" TypeName="opc:Double" LengthField="NoOfArrayDimensions" />
</opc:StructuredType>

<opc:StructuredType Name="PointWithPointArray" BaseType="ua:ExtensionObject">
  <opc:Field Name="x" TypeName="opc:Double" />
  <opc:Field Name="y" TypeName="opc:Double" />
  <opc:Field Name="z" TypeName="opc:Double" />
  <opc:Field Name="NoOfArrayDimensions" TypeName="opc:Int32" />
  <opc:Field Name="array1" TypeName="tns:Point" LengthField="NoOfArrayDimensions" />
</opc:StructuredType>

</opc:TypeDictionary>

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xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:ua="http://opcfoundation.org/UA/
xmlns:tns="http://opcfoundation.org/UA/
DefaultByteOrder="LittleEndian"
TargetNamespace="http://opcfoundation.org/UA/"
>

<opc:Import Namespace="http://opcfoundation.org/BinarySchema/

<opc:StructuredType Name="XmlElement">
<opc:Documentation>An XML element encoded as a UTF-8 string.</opc:Documentation>
<opc:Field Name="Length" TypeName="opc:Int32" />
<opc:Field Name="Value" TypeName="opc:Char" LengthField="Length" />
</opc:StructuredType>

<opc:EnumeratedType Name="NodeIdType" LengthInBits="6">
<opc:Documentation>The possible encodings for a NodeId value.</opc:Documentation>
<opc:EnumeratedValue Name="TwoByte" Value="0" />
<opc:EnumeratedValue Name="FourByte" Value="1" />
<opc:EnumeratedValue Name="Numeric" Value="2" />
<opc:EnumeratedValue Name="String" Value="3" />
<opc:EnumeratedValue Name="Guid" Value="4" />
<opc:EnumeratedValue Name="ByteString" Value="5" />
</opc:EnumeratedType>

<opc:StructuredType Name="TwoByteNodeId">
<opc:Field Name="Identifier" TypeName="opc:Byte" />
</opc:StructuredType>

<opc:StructuredType Name="FourByteNodeId">
<opc:Field Name="NamespaceIndex" TypeName="opc:Byte" />
<opc:Field Name="Identifier" TypeName="opc:UInt16" />
</opc:StructuredType>

<opc:StructuredType Name="NumericNodeId">
<opc:Field Name="NamespaceIndex" TypeName="opc:UInt16" />
<opc:Field Name="Identifier" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="StringNodeId">
<opc:Field Name="NamespaceIndex" TypeName="opc:UInt16" />
</opc:StructuredType>

<opc:StructuredType Name="NodeIdType">
<opc:Field Name="NamespaceIndex" TypeName="opc:UInt16" />
</opc:StructuredType>
<opc:StructuredType Name="DiagnosticInfo">
  <opc:Documentation>A recursive structure containing diagnostic information associated with a status code.</opc:Documentation>
  <opc:Field Name="SymbolicIdSpecified" TypeName="opc:Bit" />
  <opc:Field Name="NamespaceURISpecified" TypeName="opc:Bit" />
  <opc:Field Name="LocaleSpecified" TypeName="opc:Bit" />
  <opc:Field Name="LocalizedTextSpecified" TypeName="opc:Bit" />
  <opc:Field Name="AdditionalInfoSpecified" TypeName="opc:Bit" />
  <opc:Field Name="InnerStatusCodeSpecified" TypeName="opc:Bit" />
  <opc:Field Name="InnerDiagnosticInfoSpecified" TypeName="opc:Bit" />
  <opc:Field Name="Reserved1" TypeName="opc:Bit" Length="2" />
  <opc:Field Name="SymbolicId" TypeName="opc:Int32" SwitchField="SymbolicIdSpecified" />
  <opc:Field Name="NamespaceURI" TypeName="opc:Int32" SwitchField="NamespaceURISpecified" />
  <opc:Field Name="Locale" TypeName="opc:Int32" SwitchField="LocaleSpecified" />
  <opc:Field Name="LocalizedText" TypeName="opc:Int32" SwitchField="LocalizedTextSpecified" />
  <opc:Field Name="AdditionalInfo" TypeName="opc:CharArray" SwitchField="AdditionalInfoSpecified" />
  <opc:Field Name="InnerStatusCode" TypeName="ua:StatusCode" SwitchField="InnerStatusCodeSpecified" />
  <opc:Field Name="InnerDiagnosticInfo" TypeName="ua:DiagnosticInfo" SwitchField="InnerDiagnosticInfoSpecified" />
</opc:StructuredType>

<opc:StructuredType Name="QualifiedName">
  <opc:Documentation>A string qualified with a namespace index.</opc:Documentation>
  <opc:Field Name="NamespaceIndex" TypeName="opc:UInt16" />
  <opc:Field Name="Name" TypeName="opc:CharArray" />
</opc:StructuredType>

<opc:StructuredType Name="LocalizedText">
  <opc:Documentation>A string qualified with a namespace index.</opc:Documentation>
  <opc:Field Name="LocaleSpecified" TypeName="opc:Bit" />
  <opc:Field Name="TextSpecified" TypeName="opc:Bit" />
  <opc:Field Name="Reserved1" TypeName="opc:Bit" Length="6" />
  <opc:Field Name="Locale" TypeName="opc:CharArray" SwitchField="LocaleSpecified" />
  <opc:Field Name="Text" TypeName="opc:CharArray" SwitchField="TextSpecified" />
</opc:StructuredType>

<opc:StructuredType Name="DataValue">
  <opc:Documentation>A value with an associated timestamp, and quality.</opc:Documentation>
  <opc:Field Name="ValueSpecified" TypeName="opc:Bit" />
  <opc:Field Name="StatusCodeSpecified" TypeName="opc:Bit" />
  <opc:Field Name="SourceTimestampSpecified" TypeName="opc:Bit" />
  <opc:Field Name="SourcePicosecondsSpecified" TypeName="opc:Bit" />
  <opc:Field Name="ServerTimestampSpecified" TypeName="opc:Bit" />
  <opc:Field Name="ServerPicosecondsSpecified" TypeName="opc:Bit" />
  <opc:Field Name="Reserved1" TypeName="opc:Bit" Length="2" />
  <opc:Field Name="Value" TypeName="ua:Variant" SwitchField="ValueSpecified" />
  <opc:Field Name="StatusCode" TypeName="ua:StatusCode" SwitchField="StatusCodeSpecified" />
</opc:StructuredType>
<opc:Field Name="SourceTimestamp" TypeName="opc:DateTime" SwitchField="SourceTimestampSpecified" />
<opc:Field Name="SourcePicoseconds" TypeName="opc:UInt16" SwitchField="SourcePicosecondsSpecified" />
<opc:Field Name="ServerTimestamp" TypeName="opc:DateTime" SwitchField="ServerTimestampSpecified" />
<opc:Field Name="ServerPicoseconds" TypeName="opc:UInt16" SwitchField="ServerPicosecondsSpecified" />
</opc:StructuredType>

<opc:StructuredType Name="ExtensionObject">
<opc:Documentation>A serialized object prefixed with its data type identifier.</opc:Documentation>
<opc:Field Name="TypeIdSpecified" TypeName="opc:Bit" />
<opc:Field Name="BinaryBody" TypeName="opc:Bit" />
<opc:Field Name="XmlBody" TypeName="opc:Bit" />
<opc:Field Name="Reserved1" TypeName="opc:Bit" Length="5" />
<opc:Field Name="TypeId" TypeName="ua:ExpandedNodeId" SwitchField="TypeIdSpecified" />
<opc:Field Name="BodyLength" TypeName="opc:Int32" />
<opc:Field Name="Body" TypeName="opc:Byte" LengthField="BodyLength" />
</opc:StructuredType>

<opc:StructuredType Name="Variant">
<opc:Documentation>A union of several types.</opc:Documentation>
<opc:Field Name="VariantType" TypeName="opc:Bit" Length="6" />
<opc:Field Name="ArrayDimensionsSpecified" TypeName="opc:Bit" Length="1" />
<opc:Field Name="ArrayLengthSpecified" TypeName="opc:Bit" Length="1" />
<opc:Field Name="ArrayLength" TypeName="opc:Int32" SwitchField="ArrayLengthSpecified" />
<opc:Field Name="Boolean" TypeName="opc:Boolean" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="1" />
<opc:Field Name="SByte" TypeName="opc:SByte" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="2" />
<opc:Field Name="Byte" TypeName="opc:Byte" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="3" />
<opc:Field Name="Int16" TypeName="opc:Int16" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="4" />
<opc:Field Name="UInt16" TypeName="opc:UInt16" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="5" />
<opc:Field Name="Int32" TypeName="opc:Int32" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="6" />
<opc:Field Name="UInt32" TypeName="opc:UInt32" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="7" />
<opc:Field Name="Int64" TypeName="opc:Int64" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="8" />
<opc:Field Name="UInt64" TypeName="opc:UInt64" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="9" />
<opc:Field Name="Float" TypeName="opc:Float" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="10" />
<opc:Field Name="Double" TypeName="opc:Double" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="11" />
<opc:Field Name="String" TypeName="opc:CharArray" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="12" />
<opc:Field Name="DateTime" TypeName="opc:DateTime" LengthField="ArrayLength"
<opc:Field Name="Guid" TypeName="opc:Guid" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="13" />
<opc:Field Name="ByteString" TypeName="opc:ByteString" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="14" />
<opc:Field Name="XmlElement" TypeName="ua:XmlElement" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="15" />
<opc:Field Name="NodeId" TypeName="ua:NodeId" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="16" />
<opc:Field Name="ExpandedNodeId" TypeName="ua:ExpandedNodeId" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="17" />
<opc:Field Name="StatusCode" TypeName="ua:StatusCode" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="18" />
<opc:Field Name="QualifiedName" TypeName="ua:QualifiedName" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="19" />
<opc:Field Name="LocalizedText" TypeName="ua:LocalizedText" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="20" />
<opc:Field Name="ExtensionObject" TypeName="ua:ExtensionObject" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="21" />
<opc:Field Name="DataValue" TypeName="ua:DataValue" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="22" />
<opc:Field Name="Variant" TypeName="ua:Variant" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="23" />
<opc:Field Name="DiagnosticInfo" TypeName="ua:DiagnosticInfo" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="24" />
<opc:Field Name="NoOfArrayDimensions" TypeName="opc:Int32" LengthField="ArrayDimensionsSpecified" />
<opc:Field Name="ArrayDimensions" TypeName="opc:Int32" LengthField="NoOfArrayDimensions" SwitchField="ArrayDimensionsSpecified" />
</opc:StructuredType>

<opc:EnumeratedType Name="NamingRuleType" LengthInBits="32">
<opc:EnumeratedValue Name="Mandatory" Value="1" />
<opc:EnumeratedValue Name="Optional" Value="2" />
<opc:EnumeratedValue Name="Constraint" Value="3" />
</opc:EnumeratedType>

<opc:OpaqueType Name="ImageBMP">
<opc:Documentation>An image encoded in BMP format.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="ImageGIF">
<opc:Documentation>An image encoded in GIF format.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="ImageJPG">
<opc:Documentation>An image encoded in JPEG format.</opc:Documentation>
</opc:OpaqueType>
<opc:OpaqueType Name="ImagePNG">
  <opc:Documentation>An image encoded in PNG format.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="AudioDataType">
  <opc:Documentation>An image encoded in PNG format.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="BitFieldMaskDataType">
  <opc:Documentation>A mask of 32 bits that can be updated individually by using the top 32 bits as a mask.</opc:Documentation>
</opc:OpaqueType>

<opc:StructuredType Name="KeyValuePair" BaseType="ua:ExtensionObject">
  <opc:Field Name="Key" TypeName="ua:QualifiedName" />
  <opc:Field Name="Value" TypeName="ua:Variant" />
</opc:StructuredType>

<opc:StructuredType Name="EndpointType" BaseType="ua:ExtensionObject">
  <opc:Field Name="EndpointUrl" TypeName="opc:String" />
  <opc:Field Name="SecurityMode" TypeName="tns:MessageSecurityMode" />
  <opc:Field Name="SecurityPolicyUri" TypeName="opc:String" />
  <opc:Field Name="TransportProfileUri" TypeName="opc:String" />
</opc:StructuredType>

<opc:EnumeratedType Name="OpenFileMode" LengthInBits="32">
  <opc:EnumeratedValue Name="Read" Value="1" />
  <opc:EnumeratedValue Name="Write" Value="2" />
  <opc:EnumeratedValue Name="EraseExisting" Value="4" />
  <opc:EnumeratedValue Name="Append" Value="8" />
</opc:EnumeratedType>

<opc:EnumeratedType Name="IdentityCriteriaType" LengthInBits="32">
  <opc:EnumeratedValue Name="UserName" Value="1" />
  <opc:EnumeratedValue Name="Thumbprint" Value="2" />
  <opc:EnumeratedValue Name="Role" Value="3" />
  <opc:EnumeratedValue Name="GroupId" Value="4" />
  <opc:EnumeratedValue Name="Anonymous" Value="5" />
  <opc:EnumeratedValue Name="AuthenticatedUser" Value="6" />
</opc:EnumeratedType>

<opc:StructuredType Name="IdentityMappingRuleType" BaseType="ua:ExtensionObject">
  <opc:Field Name="CriteriaType" TypeName="tns:IdentityCriteriaType" />
  <opc:Field Name="Criteria" TypeName="opc:String" />
</opc:StructuredType>
<opc:EnumeratedType Name="TrustListMasks" LengthInBits="32">
    <opc:EnumeratedValue Name="None" Value="0" />
    <opc:EnumeratedValue Name="TrustedCertificates" Value="1" />
    <opc:EnumeratedValue Name="TrustedCrls" Value="2" />
    <opc:EnumeratedValue Name="IssuerCertificates" Value="4" />
    <opc:EnumeratedValue Name="IssuerCrls" Value="8" />
    <opc:EnumeratedValue Name="All" Value="15" />
</opc:EnumeratedType>

<opc:StructuredType Name="TrustListDataType" BaseType="ua:ExtensionObject">
    <opc:Field Name="SpecifiedLists" TypeName="opc:UInt32" />
    <opc:Field Name="NoOfTrustedCertificates" TypeName="opc:Int32" />
    <opc:Field Name="TrustedCertificates" TypeName="opc:ByteString" LengthField="NoOfTrustedCertificates" />
    <opc:Field Name="NoOfTrustedCrls" TypeName="opc:Int32" />
    <opc:Field Name="TrustedCrls" TypeName="opc:ByteString" LengthField="NoOfTrustedCrls" />
    <opc:Field Name="NoOfIssuerCertificates" TypeName="opc:Int32" />
    <opc:Field Name="IssuerCertificates" TypeName="opc:ByteString" LengthField="NoOfIssuerCertificates" />
    <opc:Field Name="NoOfIssuerCrls" TypeName="opc:Int32" />
    <opc:Field Name="IssuerCrls" TypeName="opc:ByteString" LengthField="NoOfIssuerCrls" />
</opc:StructuredType>

<opc:StructuredType Name="DecimalDataType" BaseType="ua:ExtensionObject">
    <opc:Field Name="Scale" TypeName="opc:Int16" />
    <opc:Field Name="Value" TypeName="opc:ByteString" />
</opc:StructuredType>

<opc:StructuredType Name="DataTypeSchemaHeader" BaseType="ua:ExtensionObject">
    <opc:Field Name="NoOfNamespaces" TypeName="opc:Int32" />
    <opc:Field Name="Namespaces" TypeName="opc:String" LengthField="NoOfNamespaces" />
    <opc:Field Name="NoOfStructureDataTypes" TypeName="opc:Int32" />
    <opc:Field Name="StructureDataTypes" TypeName="tns:StructureDescription" LengthField="NoOfStructureDataTypes" />
    <opc:Field Name="NoOfEnumDataTypes" TypeName="opc:Int32" />
    <opc:Field Name="EnumDataTypes" TypeName="tns:EnumDescription" LengthField="NoOfEnumDataTypes" />
    <opc:Field Name="NoOfSimpleDataTypes" TypeName="opc:Int32" />
    <opc:Field Name="SimpleDataTypes" TypeName="tns:SimpleTypeDescription" LengthField="NoOfSimpleDataTypes" />
</opc:StructuredType>

<opc:StructuredType Name="DataTypeDescription" BaseType="ua:ExtensionObject">
    <opc:Field Name="DataTypeId" TypeName="ua:NodeId" SourceType="tns:DataTypeDescription" />
    <opc:Field Name="Name" TypeName="ua:QualifiedName" SourceType="tns:DataTypeDescription" />
</opc:StructuredType>

<opc:StructuredType Name="StructureDescription" BaseType="tns:DataTypeDescription">
    <opc:Field Name="DataTypeId" TypeName="ua:NodeId" SourceType="tns:DataTypeDescription" />
    <opc:Field Name="Name" TypeName="ua:QualifiedName" SourceType="tns:DataTypeDescription" />
</opc:StructuredType>
<opc:Field Name="StructureDefinition" TypeName="tns:StructureDefinition"/>
</opc:StructuredType>

<opc:StructuredType Name="EnumDescription" BaseType="tns:DataTypeDescription">
<opc:Field Name="DataTypeId" TypeName="ua:NodeId" SourceType="tns:DataTypeDescription"/>
<opc:Field Name="Name" TypeName="ua:QualifiedName" SourceType="tns:DataTypeDescription"/>
<opc:Field Name="EnumDefinition" TypeName="tns:EnumDefinition"/>
<opc:Field Name="BuiltInType" TypeName="opc:Byte"/>
</opc:StructuredType>

<opc:StructuredType Name="SimpleTypeDescription" BaseType="tns:DataTypeDescription">
<opc:Field Name="DataTypeId" TypeName="ua:NodeId" SourceType="tns:DataTypeDescription"/>
<opc:Field Name="Name" TypeName="ua:QualifiedName" SourceType="tns:DataTypeDescription"/>
<opc:Field Name="BaseDataType" TypeName="ua:NodeId"/>
<opc:Field Name="BuiltInType" TypeName="opc:Byte"/>
</opc:StructuredType>

<opc:StructuredType Name="UABinaryFileDataType" BaseType="tns:DataTypeSchemaHeader">
<opc:Field Name="NoOfNamespaces" TypeName="opc:Int32"/>
<opc:Field Name="Namespaces" TypeName="opc:String" LengthField="NoOfNamespaces"/>
<opc:Field Name="NoOfStructureDataTypes" TypeName="opc:Int32"/>
<opc:Field Name="StructureDataTypes" TypeName="tns:StructureDescription"LengthField="NoOfStructureDataTypes"/>
<opc:Field Name="NoOfEnumDataTypes" TypeName="opc:Int32"/>
<opc:Field Name="EnumDataTypes" TypeName="tns:EnumDescription" LengthField="NoOfEnumDataTypes"/>
<opc:Field Name="NoOfSimpleDataTypes" TypeName="opc:Int32"/>
<opc:Field Name="SimpleDataTypes" TypeName="tns:SimpleTypeDescription"LengthField="NoOfSimpleDataTypes"/>
<opc:Field Name="SchemaLocation" TypeName="opc:String"/>
<opc:Field Name="NoOfFileHeader" TypeName="opc:Int32"/>
<opc:Field Name="FileHeader" TypeName="tns:KeyValuePair" LengthField="NoOfFileHeader"/>
<opc:Field Name="Body" TypeName="ua:Variant"/>
</opc:StructuredType>

<opc:EnumeratedType Name="PubSubState" LengthInBits="32">
<opc:EnumeratedValue Name="Disabled" Value="0"/>
<opc:EnumeratedValue Name="Paused" Value="1"/>
<opc:EnumeratedValue Name="Operational" Value="2"/>
<opc:EnumeratedValue Name="Error" Value="3"/>
</opc:EnumeratedType>

<opc:StructuredType Name="DataSetMetaDataType" BaseType="tns:DataTypeSchemaHeader">
<opc:Field Name="NoOfNamespaces" TypeName="opc:Int32"/>
<opc:Field Name="Namespaces" TypeName="opc:String" LengthField="NoOfNamespaces"/>
<opc:Field Name="NoOfStructureDataTypes" TypeName="opc:Int32"/>
<opc:Field Name="StructureDataTypes" TypeName="tns:StructureDescription"LengthField="NoOfStructureDataTypes"/>
</opc:StructuredType>
<opc:Field Name="NoOfEnumDataTypes" TypeName="opc:Int32" />
<opc:Field Name="EnumDataTypes" TypeName="tns:EnumDescription" LengthField="NoOfEnumDataTypes" />
<opc:Field Name="NoOfSimpleDataTypes" TypeName="opc:Int32" />
<opc:Field Name="SimpleDataTypes" TypeName="tns:SimpleTypeDescription" LengthField="NoOfSimpleDataTypes" />
<opc:Field Name="Name" TypeName="opc:String" />
<opc:Field Name="Description" TypeName="ua:LocalizedText" />
<opc:Field Name="NoOfFields" TypeName="opc:Int32" />
<opc:Field Name="Fields" TypeName="tns:FieldMetaData" LengthField="NoOfFields" />
<opc:Field Name="ConfigurationVersion" TypeName="tns:ConfigurationVersionDataType" />
</opc:StructuredType>

<opc:StructuredType Name="FieldMetaData" BaseType="ua:ExtensionObject">
  <opc:Field Name="Name" TypeName="opc:String" />
  <opc:Field Name="Description" TypeName="ua:LocalizedText" />
  <opc:Field Name="FieldFlags" TypeName="tns:DataSetFieldFlags" />
  <opc:Field Name="BuiltInType" TypeName="opc:Byte" />
  <opc:Field Name="DataType" TypeName="ua:NodeId" />
  <opc:Field Name="ValueRank" TypeName="opc:Int32" />
  <opc:Field Name="NoOfArrayDimensions" TypeName="opc:Int32" />
  <opc:Field Name="ArrayDimensions" TypeName="opc:UInt32" LengthField="NoOfArrayDimensions" />
  <opc:Field Name="MaxStringLength" TypeName="opc:UInt32" />
  <opc:Field Name="DataSetFieldId" TypeName="opc:Guid" />
  <opc:Field Name="NoOfProperties" TypeName="opc:Int32" />
  <opc:Field Name="Properties" TypeName="tns:KeyValuePair" LengthField="NoOfProperties" />
</opc:StructuredType>

<opc:EnumeratedType Name="DataSetFieldFlags" LengthInBits="16" IsOptionSet="true">
  <opc:EnumeratedValue Name="None" Value="0" />
  <opc:EnumeratedValue Name="PromotedField" Value="1" />
</opc:EnumeratedType>

<opc:StructuredType Name="ConfigurationVersionDataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="MajorVersion" TypeName="opc:UInt32" />
  <opc:Field Name="MinorVersion" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="PublishedDataSetDataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="Name" TypeName="opc:String" />
  <opc:Field Name="NoOfDataSetFolder" TypeName="opc:Int32" />
  <opc:Field Name="DataSetFolder" TypeName="opc:String" LengthField="NoOfDataSetFolder" />
  <opc:Field Name="DataSetMetaData" TypeName="tns:DataSetMetaDataType" />
  <opc:Field Name="NoOfExtensionFields" TypeName="opc:Int32" />
  <opc:Field Name="ExtensionFields" TypeName="tns:KeyValuePair" LengthField="NoOfExtensionFields" />
  <opc:Field Name="DataSetSource" TypeName="ua:ExtensionObject" />
</opc:StructuredType>
<opc:StructuredType Name="PublishedDataSetSourceDataType" BaseType="ua:ExtensionObject">
</opc:StructuredType>

<opc:StructuredType Name="PublishedVariableDataType" BaseType="ua:ExtensionObject">
<opc:Field Name="PublishedVariable" TypeName="ua:NodeId" />
<opc:Field Name="AttributeId" TypeName="opc:UInt32" />
<opc:Field Name="SamplingIntervalHint" TypeName="opc:Double" />
<opc:Field Name="DeadbandType" TypeName="opc:UInt32" />
<opc:Field Name="DeadbandValue" TypeName="opc:Double" />
<opc:Field Name="IndexRange" TypeName="opc:String" />
<opc:Field Name="SubstituteValue" TypeName="ua:Variant" />
<opc:Field Name="NoOfMetaDataProperties" TypeName="opc:Int32" />
<opc:Field Name="MetaDataProperties" TypeName="ua:QualifiedName" LengthField="NoOfMetaDataProperties" />
</opc:StructuredType>

<opc:StructuredType Name="PublishedDataItemsDataType" BaseType="tns:PublishedDataSetSourceDataType">
<opc:Field Name="NoOfPublishedData" TypeName="opc:Int32" />
<opc:Field Name="PublishedData" TypeName="tns:PublishedVariableDataType" LengthField="NoOfPublishedData" />
</opc:StructuredType>

<opc:StructuredType Name="PublishedEventsDataType" BaseType="tns:PublishedDataSetSourceDataType">
<opc:Field Name="EventNotifier" TypeName="ua:NodeId" />
<opc:Field Name="NoOfSelectedFields" TypeName="opc:Int32" />
<opc:Field Name="SelectedFields" TypeName="tns:SimpleAttributeOperand" LengthField="NoOfSelectedFields" />
<opc:Field Name="Filter" TypeName="tns:ContentFilter" />
</opc:StructuredType>

<opc:EnumeratedType Name="DataSetFieldContentMask" LengthInBits="32" IsOptionSet="true">
<opc:EnumeratedValue Name="None" Value="0" />
<opc:EnumeratedValue Name="StatusCode" Value="1" />
<opc:EnumeratedValue Name="SourceTimestamp" Value="2" />
<opc:EnumeratedValue Name="ServerTimestamp" Value="4" />
<opc:EnumeratedValue Name="SourcePicoSeconds" Value="8" />
<opc:EnumeratedValue Name="ServerPicoSeconds" Value="16" />
<opc:EnumeratedValue Name="RawData" Value="32" />
</opc:EnumeratedType>

<opc:StructuredType Name="DataSetWriterDataType" BaseType="ua:ExtensionObject">
<opc:Field Name="Name" TypeName="opc:String" />
<opc:Field Name="Enabled" TypeName="opc:Boolean" />
<opc:Field Name="DataSetWriterId" TypeName="opc:UInt16" />
<opc:Field Name="DataSetFieldContentMask" TypeName="tns:DataSetFieldContentMask" />
<opc:Field Name="KeyFrameCount" TypeName="opc:UInt32" />
<opc:Field Name="DataSetName" TypeName="opc:String" />
</opc:StructuredType>
<opc:Field Name="NoOfDataSetWriters" TypeName="opc:Int32" />
<opc:Field Name="DataSetWriters" TypeName="tns:DataSetWriterDataType"
LengthField="NoOfDataSetWriters" />
</opc:StructuredType>

<opc:StructuredType Name="WriterGroupTransportDataType" BaseType="ua:ExtensionObject">
</opc:StructuredType>

<opc:StructuredType Name="WriterGroupMessageDataType" BaseType="ua:ExtensionObject">
</opc:StructuredType>

<opc:StructuredType Name="PubSubConnectionDataType" BaseType="ua:ExtensionObject">
<opc:Field Name="Name" TypeName="opc:String" />
<opc:Field Name="Enabled" TypeName="opc:Boolean" />
<opc:Field Name="PublisherId" TypeName="ua:Variant" />
<opc:Field Name="TransportProfileUri" TypeName="opc:String" />
<opc:Field Name="Address" TypeName="ua:ExtensionObject" />
<opc:Field Name="NoOfConnectionProperties" TypeName="opc:Int32" 
LengthField="NoOfConnectionProperties" />
<opc:Field Name="TransportSettings" TypeName="ua:ExtensionObject" />
<opc:Field Name="NoOfWriterGroups" TypeName="opc:Int32" />
<opc:Field Name="WriterGroups" TypeName="tns:WriterGroupDataType" LengthField="NoOfWriterGroups" />
<opc:Field Name="NoOfReaderGroups" TypeName="opc:Int32" />
<opc:Field Name="ReaderGroups" TypeName="tns:ReaderGroupDataType" LengthField="NoOfReaderGroups" />
</opc:StructuredType>

<opc:StructuredType Name="ConnectionTransportDataType" BaseType="ua:ExtensionObject">
</opc:StructuredType>

<opc:StructuredType Name="NetworkAddressDataType" BaseType="ua:ExtensionObject">
<opc:Field Name="NetworkInterface" TypeName="opc:String" />
</opc:StructuredType>

<opc:StructuredType Name="NetworkAddressUrlDataType" BaseType="tns:NetworkAddressDataType">
<opc:Field Name="NetworkInterface" TypeName="opc:String" SourceType="tns:NetworkAddressDataType" />
<opc:Field Name="Url" TypeName="opc:String" />
</opc:StructuredType>

<opc:StructuredType Name="ReaderGroupDataType" BaseType="tns:PubSubGroupDataType">
<opc:Field Name="Name" TypeName="opc:String" SourceType="tns:PubSubGroupDataType" />
<opc:Field Name="Enabled" TypeName="opc:Boolean" SourceType="tns:PubSubGroupDataType" />
<opc:Field Name="SecurityMode" TypeName="tns:MessageSecurityMode" SourceType="tns:PubSubGroupDataType" />
<opc:Field Name="SecurityKeyId" TypeName="opc:String" SourceType="tns:PubSubGroupDataType" />
<opc:Field Name="NoOfSecurityKeyServices" TypeName="opc:Int32" />
<opc:Field Name="SecurityKeyServices" TypeName="tns:EndpointDescription"
<opc:StructuredType Name="ReaderGroupTransportDataType" BaseType="ua:ExtensionObject">
</opc:StructuredType>

<opc:StructuredType Name="ReaderGroupMessageDataType" BaseType="ua:ExtensionObject">
</opc:StructuredType>

<opc:StructuredType Name="DataSetReaderDataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="Name" TypeName="opc:String" />
  <opc:Field Name="Enabled" TypeName="opc:Boolean" />
  <opc:Field Name="PublisherId" TypeName="ua:Variant" />
  <opc:Field Name="WriterGroupId" TypeName="opc:UInt16" />
  <opc:Field Name="DataSetWriterId" TypeName="opc:UInt16" />
  <opc:Field Name="DataSetMetaData" TypeName="tns:DataSetMetaDataType" />
  <opc:Field Name="DataSetFieldContentMask" TypeName="tns:DataSetFieldContentMask" />
  <opc:Field Name="MessageReceiveTimeout" TypeName="opc:Double" />
  <opc:Field Name="KeyFrameCount" TypeName="opc:UInt32" />
  <opc:Field Name="HeaderLayoutUri" TypeName="opc:String" />
  <opc:Field Name="SecurityMode" TypeName="tns:MessageSecurityMode" />
  <opc:Field Name="SecurityGroupId" TypeName="opc:String" />
  <opc:Field Name="NoOfSecurityKeyServices" TypeName="opc:Int32" />
  <opc:Field Name="SecurityKeyServices" TypeName="tns:EndpointDescription" LengthField="NoOfSecurityKeyServices" />
  <opc:Field Name="NoOfDataSetReaderProperties" TypeName="opc:Int32" />
  <opc:Field Name="DataSetReaderProperties" TypeName="tns:KeyValuePair" LengthField="NoOfDataSetReaderProperties" />
  <opc:Field Name="TransportSettings" TypeName="ua:ExtensionObject" />
  <opc:Field Name="MessageSettings" TypeName="ua:ExtensionObject" />
  <opc:Field Name="SubscribedDataSet" TypeName="ua:ExtensionObject" />
</opc:StructuredType>

<opc:StructuredType Name="DataSetReaderTransportDataType" BaseType="ua:ExtensionObject">
</opc:StructuredType>

<opc:StructuredType Name="DataSetReaderMessageDataType" BaseType="ua:ExtensionObject">
</opc:StructuredType>
<opc:StructuredType Name="SubscribedDataSetDataType" BaseType="ua:ExtensionObject">
  </opc:StructuredType>

<opc:StructuredType Name="TargetVariablesDataType" BaseType="tns:SubscribedDataSetDataType">
  <opc:Field Name="NoOfTargetVariables" TypeName="opc:Int32" />
  <opc:Field Name="TargetVariables" TypeName="tns:FieldTargetDataType" LengthField="NoOfTargetVariables" />
</opc:StructuredType>

<opc:StructuredType Name="FieldTargetDataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="DataSetFieldId" TypeName="opc:Guid" />
  <opc:Field Name="ReceiverIndexRange" TypeName="opc:String" />
  <opc:Field Name="TargetNodeId" TypeName="ua:NodeId" />
  <opc:Field Name="AttributeId" TypeName="opc:UInt32" />
  <opc:Field Name="WriteIndexRange" TypeName="opc:String" />
  <opc:Field Name="OverrideValueHandling" TypeName="tns:OverrideValueHandling" />
  <opc:Field Name="OverrideValue" TypeName="ua:Variant" />
</opc:StructuredType>

<opc:EnumeratedType Name="OverrideValueHandling" LengthInBits="32">
  <opc:EnumeratedValue Name="Disabled" Value="0" />
  <opc:EnumeratedValue Name="LastUsableValue" Value="1" />
  <opc:EnumeratedValue Name="OverrideValue" Value="2" />
</opc:EnumeratedType>

<opc:StructuredType Name="SubscribedDataSetMirrorDataType" BaseType="tns:SubscribedDataSetDataType">
  <opc:Field Name="ParentNodeName" TypeName="opc:String" />
  <opc:Field Name="NoOfRolePermissions" TypeName="opc:Int32" />
  <opc:Field Name="RolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfRolePermissions" />
</opc:StructuredType>

<opc:StructuredType Name="PubSubConfigurationDataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="NoOfPublishedDataSets" TypeName="opc:Int32" />
  <opc:Field Name="PublishedDataSets" TypeName="tns:PublishedDataSetDataType" LengthField="NoOfPublishedDataSets" />
  <opc:Field Name="NoOfConnections" TypeName="opc:Int32" />
  <opc:Field Name="Connections" TypeName="tns:PubSubConnectionDataType" LengthField="NoOfConnections" />
  <opc:Field Name="Enabled" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:EnumeratedType Name="DataSetOrderingType" LengthInBits="32">
  <opc:EnumeratedValue Name="Undefined" Value="0" />
  <opc:EnumeratedValue Name="AscendingWriterId" Value="1" />
  <opc:EnumeratedValue Name="AscendingWriterIdSingle" Value="2" />
</opc:EnumeratedType>
<opc:EnumeratedType Name="UadpNetworkMessageContentMask" LengthInBits="32" IsOptionSet="true">
    <opc:EnumeratedValue Name="None" Value="0" />
    <opc:EnumeratedValue Name="PublisherId" Value="1" />
    <opc:EnumeratedValue Name="GroupHeader" Value="2" />
    <opc:EnumeratedValue Name="WriterGroupId" Value="4" />
    <opc:EnumeratedValue Name="GroupVersion" Value="8" />
    <opc:EnumeratedValue Name="NetworkMessageNumber" Value="16" />
    <opc:EnumeratedValue Name="SequenceNumber" Value="32" />
    <opc:EnumeratedValue Name="PayloadHeader" Value="64" />
    <opc:EnumeratedValue Name="Timestamp" Value="128" />
    <opc:EnumeratedValue Name="PicoSeconds" Value="256" />
    <opc:EnumeratedValue Name="DataSetClassId" Value="512" />
    <opc:EnumeratedValue Name="PromotedFields" Value="1024" />
</opc:EnumeratedType>

<opc:StructuredType Name="UadpWriterGroupMessageDataType" BaseType="tns:WriterGroupMessageDataType">
    <opc:Field Name="GroupVersion" TypeName="opc:UInt32" />
    <opc:Field Name="DataSetOrdering" TypeName="tns:DataSetOrderingType" />
    <opc:Field Name="NetworkMessageContentMask" TypeName="tns:UadpNetworkMessageContentMask" />
    <opc:Field Name="SamplingOffset" TypeName="opc:Double" />
    <opc:Field Name="NoOfPublishingOffset" TypeName="opc:Int32" />
    <opc:Field Name="PublishingOffset" TypeName="opc:Double" LengthField="NoOfPublishingOffset" />
</opc:StructuredType>

<opc:EnumeratedType Name="UadpDataSetMessageContentMask" LengthInBits="32" IsOptionSet="true">
    <opc:EnumeratedValue Name="None" Value="0" />
    <opc:EnumeratedValue Name="Timestamp" Value="1" />
    <opc:EnumeratedValue Name="PicoSeconds" Value="2" />
    <opc:EnumeratedValue Name="Status" Value="4" />
    <opc:EnumeratedValue Name="MajorVersion" Value="8" />
    <opc:EnumeratedValue Name="MinorVersion" Value="16" />
    <opc:EnumeratedValue Name="SequenceNumber" Value="32" />
</opc:EnumeratedType>

<opc:StructuredType Name="UadpDataSetWriterMessageDataType" BaseType="tns:DataSetWriterMessageDataType">
    <opc:Field Name="DataSetMessageContentMask" TypeName="tns:UadpDataDataSetMessageContentMask" />
    <opc:Field Name="ConfiguredSize" TypeName="opc:UInt16" />
    <opc:Field Name="NetworkMessageNumber" TypeName="opc:UInt16" />
    <opc:Field Name="DataSetOffset" TypeName="opc:UInt16" />
</opc:StructuredType>

<opc:StructuredType Name="UadpDataDataSetReaderMessageDataType" BaseType="tns:DataSetReaderMessageDataType">
    <opc:Field Name="GroupVersion" TypeName="opc:UInt32" />
    <opc:Field Name="NetworkMessageNumber" TypeName="opc:UInt16" />
    <opc:Field Name="DataSetOffset" TypeName="opc:UInt16" />
</opc:StructuredType>

<opc:StructuredType Name="UadpDataDataSetWriterMessageDataType" BaseType="tns:DataSetWriterMessageDataType">
    <opc:Field Name="DataSetMessageContentMask" TypeName="tns:UadpDataDataSetMessageContentMask" />
    <opc:Field Name="ConfiguredSize" TypeName="opc:UInt16" />
    <opc:Field Name="NetworkMessageNumber" TypeName="opc:UInt16" />
    <opc:Field Name="DataSetOffset" TypeName="opc:UInt16" />
</opc:StructuredType>

<opc:StructuredType Name="UadpDataDataSetReaderMessageDataType" BaseType="tns:DataSetReaderMessageDataType">
    <opc:Field Name="GroupVersion" TypeName="opc:UInt32" />
    <opc:Field Name="NetworkMessageNumber" TypeName="opc:UInt16" />
    <opc:Field Name="DataSetOffset" TypeName="opc:UInt16" />
</opc:StructuredType>
<opc:StructuredType Name="DatagramWriterGroupTransportDataType" BaseType="tns:WriterGroupTransportDataType">
  <opc:Field Name="MessageRepeatCount" TypeName="opc:Byte" />
  <opc:Field Name="MessageRepeatDelay" TypeName="opc:Double" />
</opc:StructuredType>

<opc:StructuredType Name="BrokerConnectionTransportDataType" BaseType="tns:ConnectionTransportDataType">
  <opc:Field Name="ResourceUri" TypeName="opc:String" />
  <opc:Field Name="AuthenticationProfileUri" TypeName="opc:String" />
</opc:StructuredType>

<opc:EnumeratedType Name="BrokerTransportQualityOfService" LengthInBits="32">
  <opc:EnumeratedValue Name="NotSpecified" Value="0" />
  <opc:EnumeratedValue Name="BestEffort" Value="1" />
  <opc:EnumeratedValue Name="AtLeastOnce" Value="2" />
  <opc:EnumeratedValue Name="AtMostOnce" Value="3" />
  <opc:EnumeratedValue Name="ExactlyOnce" Value="4" />
</opc:EnumeratedType>

<opc:StructuredType Name="BrokerWriterGroupTransportDataType" BaseType="tns:WriterGroupTransportDataType">
  <opc:Field Name="QueueName" TypeName="opc:String" />
  <opc:Field Name="ResourceUri" TypeName="opc:String" />
  <opc:Field Name="AuthenticationProfileUri" TypeName="opc:String" />
  <opc:Field Name="RequestedDeliveryGuarantee" TypeName="tns:BrokerTransportQualityOfService" />
</opc:StructuredType>

<opc:StructuredType Name="BrokerDataSetWriterTransportDataType" BaseType="tns:DataSetWriterTransportDataType">
  <opc:Field Name="QueueName" TypeName="opc:String" />
  <opc:Field Name="ResourceUri" TypeName="opc:String" />
  <opc:Field Name="AuthenticationProfileUri" TypeName="opc:String" />
  <opc:Field Name="RequestedDeliveryGuarantee" TypeName="tns:BrokerTransportQualityOfService" />
  <opc:Field Name="MetaDataQueueName" TypeName="opc:String" />
  <opc:Field Name="MetaDataUpdateTime" TypeName="opc:Double" />
</opc:StructuredType>

<opc:StructuredType Name="BrokerDataSetReaderTransportDataType" BaseType="tns:DataSetReaderTransportDataType">
  <opc:Field Name="QueueName" TypeName="opc:String" />
  <opc:Field Name="ResourceUri" TypeName="opc:String" />
  <opc:Field Name="AuthenticationProfileUri" TypeName="opc:String" />
  <opc:Field Name="RequestedDeliveryGuarantee" TypeName="tns:BrokerTransportQualityOfService" />
  <opc:Field Name="MetaDataQueueName" TypeName="opc:String" />
</opc:StructuredType>

<opc:EnumeratedType Name="DiagnosticsLevel" LengthInBits="32"
<opc:EnumeratedValue Name="Basic" Value="0" />
<opc:EnumeratedValue Name="Advanced" Value="1" />
<opc:EnumeratedValue Name="Info" Value="2" />
<opc:EnumeratedValue Name="Log" Value="3" />
<opc:EnumeratedValue Name="Debug" Value="4" />
</opc:EnumeratedType>

<opc:EnumeratedType Name="PubSubDiagnosticsCounterClassification" LengthInBits="32">
<opc:EnumeratedValue Name="Information" Value="0" />
<opc:EnumeratedValue Name="Error" Value="1" />
</opc:EnumeratedType>

<opc:EnumeratedType Name="IdType" LengthInBits="32">
<opc:Documentation>The type of identifier used in a node id.</opc:Documentation>
<opc:EnumeratedValue Name="Numeric" Value="0" />
<opc:EnumeratedValue Name="String" Value="1" />
<opc:EnumeratedValue Name="Guid" Value="2" />
<opc:EnumeratedValue Name="Opaque" Value="3" />
</opc:EnumeratedType>

<opc:EnumeratedType Name="NodeClass" LengthInBits="32">
<opc:Documentation>A mask specifying the class of the node.</opc:Documentation>
<opc:EnumeratedValue Name="Unspecified" Value="0" />
<opc:EnumeratedValue Name="Object" Value="1" />
<opc:EnumeratedValue Name="Variable" Value="2" />
<opc:EnumeratedValue Name="Method" Value="4" />
<opc:EnumeratedValue Name="ObjectType" Value="8" />
<opc:EnumeratedValue Name="VariableType" Value="16" />
<opc:EnumeratedValue Name="ReferenceType" Value="32" />
<opc:EnumeratedValue Name="DataType" Value="64" />
<opc:EnumeratedValue Name="View" Value="128" />
</opc:EnumeratedType>

<opc:EnumeratedType Name="PermissionType" LengthInBits="32" IsOptionSet="true">
<opc:EnumeratedValue Name="None" Value="0" />
<opc:EnumeratedValue Name="Browse" Value="1" />
<opc:EnumeratedValue Name="ReadRolePermissions" Value="2" />
<opc:EnumeratedValue Name="WriteAttribute" Value="4" />
<opc:EnumeratedValue Name="WriteRolePermissions" Value="8" />
<opc:EnumeratedValue Name="WriteHistorizing" Value="16" />
<opc:EnumeratedValue Name="Read" Value="32" />
<opc:EnumeratedValue Name="Write" Value="64" />
<opc:EnumeratedValue Name="ReadHistory" Value="128" />
<opc:EnumeratedValue Name="InsertHistory" Value="256" />
<opc:EnumeratedValue Name="ModifyHistory" Value="512" />
<opc:EnumeratedValue Name="DeleteHistory" Value="1024" />
<opc:EnumeratedValue Name="ReceiveEvents" Value="2048" />
<opc:EnumeratedValue Name="Call" Value="4096" />

<opc:EnumeratedType Name="StructureType" LengthInBits="32">
    <opc:EnumeratedValue Name="Structure" Value="0" />
    <opc:EnumeratedValue Name="StructureWithOptionalFields" Value="1" />
    <opc:EnumeratedValue Name="Union" Value="2" />
</opc:EnumeratedType>

<opc:StructuredType Name="StructureField" BaseType="ua:ExtensionObject">
    <opc:Field Name="Name" TypeName="opc:String" />
    <opc:Field Name="Description" TypeName="ua:LocalizedText" />
    <opc:Field Name="DataType" TypeName="ua:NodeId" />
    <opc:Field Name="ValueRank" TypeName="opc:Int32" />
    <opc:Field Name="NoOfArrayDimensions" TypeName="opc:Int32" />
    <opc:Field Name="ArrayDimensions" TypeName="opc:UInt32" LengthField="NoOfArrayDimensions" />
    <opc:Field Name="MaxStringLength" TypeName="opc:UInt32" />
    <opc:Field Name="IsOptional" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="StructureDefinition" BaseType="tns:DataTypeDefinition">
    <opc:Field Name="DefaultEncodingId" TypeName="ua:NodeId" />
    <opc:Field Name="BaseDataType" TypeName="ua:NodeId" />
    <opc:Field Name="StructureType" TypeName="tns:StructureType" />
    <opc:Field Name="NoOfFields" TypeName="opc:Int32" />
    <opc:Field Name="Fields" TypeName="tns:StructureField" LengthField="NoOfFields" />
</opc:StructuredType>

<opc:StructuredType Name="EnumDefinition" BaseType="tns:DataTypeDefinition">
    <opc:Field Name="NoOfFields" TypeName="opc:Int32" />
    <opc:Field Name="Fields" TypeName="tns:EnumField" LengthField="NoOfFields" />
</opc:StructuredType>

<opc:StructuredType Name="Node" BaseType="ua:ExtensionObject">
    <opc:Documentation>Specifies the attributes which belong to all nodes.</opc:Documentation>
    <opc:Field Name="NodeId" TypeName="ua:NodeId" />
    <opc:Field Name="NodeClass" TypeName="tns:NodeClass" />
    <opc:Field Name="BrowseName" TypeName="ua:QualifiedName" />
    <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" />
    <opc:Field Name="Description" TypeName="ua:LocalizedText" />
    <opc:Field Name="WriteMask" TypeName="opc:UInt32" />
    <opc:Field Name="UserWriteMask" TypeName="opc:UInt32" />
    <opc:Field Name="NoOfRolePermissions" TypeName="opc:Int32" />
    <opc:Field Name="RolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfRolePermissions" />
    <opc:Field Name="NoOfUserRolePermissions" TypeName="opc:Int32" />
    <opc:Field Name="UserRolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfUserRolePermissions" />
    <opc:Field Name="AccessRestrictions" TypeName="opc:UInt16" />
    <opc:Field Name="NoOfReferences" TypeName="opc:Int32" />
</opc:StructuredType>
<opc:Field Name="Description" TypeName="ua:LocalizedText" />
</opc:StructuredType>

<opc:StructuredType Name="EnumValueType" BaseType="ua:ExtensionObject">
<opc:Documentation>A mapping between a value of an enumerated type and a name and description.</opc:Documentation>
<opc:Field Name="Value" TypeName="opc:Int64" />
<opc:Field Name="DisplayName" TypeName="ua:LocalizedText" />
<opc:Field Name="Description" TypeName="ua:LocalizedText" />
</opc:StructuredType>

<opc:StructuredType Name="EnumField" BaseType="tns:EnumValueType">
<opc:Field Name="Value" TypeName="opc:Int64" SourceType="tns:EnumValueType" />
<opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:EnumValueType" />
<opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:EnumValueType" />
<opc:Field Name="Name" TypeName="opc:String" />
</opc:StructuredType>

<opc:StructuredType Name="OptionSet" BaseType="ua:ExtensionObject">
<opc:Documentation>This abstract Structured DataType is the base DataType for all DataTypes representing a bit mask.</opc:Documentation>
<opc:Field Name="Value" TypeName="opc:ByteString" />
<opc:Field Name="ValidBits" TypeName="opc:ByteString" />
</opc:StructuredType>

<opc:StructuredType Name="Union" BaseType="ua:ExtensionObject">
<opc:Documentation>This abstract DataType is the base DataType for all union DataTypes.</opc:Documentation>
</opc:StructuredType>

<opc:OpaqueType Name="NormalizedString">
<opc:Documentation>A string normalized based on the rules in the unicode specification.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="DecimalString">
<opc:Documentation>An arbitrary numeric value.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="DurationString">
<opc:Documentation>A period of time formatted as defined in ISO 8601-2000.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="TimeString">
<opc:Documentation>A time formatted as defined in ISO 8601-2000.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="DateString">
<opc:Documentation>A date formatted as defined in ISO 8601-2000.</opc:Documentation>
</opc:OpaqueType>
<opc:OpaqueType Name="Duration">
    <opc:Documentation>A period of time measured in milliseconds.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="UtcTime">
    <opc:Documentation>A date/time value specified in Universal Coordinated Time (UTC).</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="LocaleId">
    <opc:Documentation>An identifier for a user locale.</opc:Documentation>
</opc:OpaqueType>

<opc:StructuredType Name="TimeZoneDataType" BaseType="ua:ExtensionObject">
    <opc:Field Name="Offset" TypeName="opc:Int16" />
    <opc:Field Name="DaylightSavingInOffset" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:OpaqueType Name="Index">
    <opc:Documentation>This primitive data type is a UInt32 that identifies an element of an array.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="IntegerId">
    <opc:Documentation>A numeric identifier for an object.</opc:Documentation>
</opc:OpaqueType>

<opc:EnumeratedType Name="ApplicationType" LengthInBits="32">
    <opc:Documentation>The types of applications.</opc:Documentation>
    <opc:EnumeratedValue Name="Server" Value="0"/>
    <opc:EnumeratedValue Name="Client" Value="1"/>
    <opc:EnumeratedValue Name="ClientAndServer" Value="2"/>
    <opc:EnumeratedValue Name="DiscoveryServer" Value="3"/>
</opc:EnumeratedType>

<opc:StructuredType Name="ApplicationDescription" BaseType="ua:ExtensionObject">
    <opc:Documentation>Describes an application and how to find it.</opc:Documentation>
    <opc:Field Name="ApplicationUri" TypeName="opc:String" />
    <opc:Field Name="ProductUri" TypeName="opc:String" />
    <opc:Field Name="ApplicationName" TypeName="ua:LocalizedText" />
    <opc:Field Name="ApplicationType" TypeName="tns:ApplicationType" />
    <opc:Field Name="GatewayServerUri" TypeName="opc:String" />
    <opc:Field Name="DiscoveryProfileUri" TypeName="opc:String" />
    <opc:Field Name="NoOfDiscoveryUrls" TypeName="opc:Int32" />
    <opc:Field Name="DiscoveryUrls" TypeName="opc:String" LengthField="NoOfDiscoveryUrls" />
</opc:StructuredType>
<opc:StructuredType Name="RequestHeader" BaseType="ua:ExtensionObject">
    <opc:Documentation>The header passed with every server request.</opc:Documentation>
    <opc:Field Name="AuthenticationToken" TypeName="ua:NodeId" />
    <opc:Field Name="Timestamp" TypeName="opc:DateTime" />
    <opc:Field Name="RequestHandle" TypeName="opc:UInt32" />
    <opc:Field Name="ReturnDiagnostics" TypeName="opc:UInt32" />
    <opc:Field Name="AuditEntryId" TypeName="opc:String" />
    <opc:Field Name="TimeoutHint" TypeName="opc:UInt32" />
    <opc:Field Name="AdditionalHeader" TypeName="ua:ExtensionObject" />
</opc:StructuredType>

<opc:StructuredType Name="ResponseHeader" BaseType="ua:ExtensionObject">
    <opc:Documentation>The header passed with every server response.</opc:Documentation>
    <opc:Field Name="Timestamp" TypeName="opc:DateTime" />
    <opc:Field Name="RequestHandle" TypeName="opc:UInt32" />
    <opc:Field Name="ServiceResult" TypeName="ua:StatusCode" />
    <opc:Field Name="ServiceDiagnostics" TypeName="ua:DiagnosticInfo" />
    <opc:Field Name="NoOfStringTable" TypeName="opc:Int32" />
    <opc:Field Name="StringTable" TypeName="opc:String" LengthField="NoOfStringTable" />
    <opc:Field Name="AdditionalHeader" TypeName="ua:ExtensionObject" />
</opc:StructuredType>

<opc:OpaqueType Name="VersionTime">
</opc:OpaqueType>

<opc:StructuredType Name="ServiceFault" BaseType="ua:ExtensionObject">
    <opc:Documentation>The response returned by all services when there is a service level error.</opc:Documentation>
    <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
</opc:StructuredType>

<opc:StructuredType Name="SessionlessInvokeRequestType" BaseType="ua:ExtensionObject">
    <opc:Field Name="NoOfUrisVersion" TypeName="opc:Int32" />
    <opc:Field Name="UrisVersion" TypeName="opc:UInt32" LengthField="NoOfUrisVersion" />
    <opc:Field Name="NoOfNamespaceUris" TypeName="opc:Int32" />
    <opc:Field Name="NamespaceUris" TypeName="opc:String" LengthField="NoOfNamespaceUris" />
    <opc:Field Name="NoOfServerUris" TypeName="opc:Int32" />
    <opc:Field Name="ServerUris" TypeName="opc:String" LengthField="NoOfServerUris" />
    <opc:Field Name="NoOfLocaleIds" TypeName="opc:Int32" />
    <opc:Field Name="LocaleIds" TypeName="opc:String" LengthField="NoOfLocaleIds" />
    <opc:Field Name="ServiceId" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="SessionlessInvokeResponseType" BaseType="ua:ExtensionObject">
    <opc:Field Name="NoOfNamespaceUris" TypeName="opc:Int32" />
    <opc:Field Name="NamespaceUris" TypeName="opc:String" LengthField="NoOfNamespaceUris" />
    <opc:Field Name="NoOfServerUris" TypeName="opc:Int32" />
    <opc:Field Name="ServerUris" TypeName="opc:String" LengthField="NoOfServerUris" />
</opc:StructuredType>
<opc:Field Name="ServiceId" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="FindServersRequest" BaseType="ua:ExtensionObject">
<opc:Documentation>Finds the servers known to the discovery server.</opc:Documentation>
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="EndpointUrl" TypeName="opc:String" />
<opc:Field Name="NoOfLocaleIds" TypeName="opc:Int32" />
<opc:Field Name="LocaleIds" TypeName="opc:String" LengthField="NoOfLocaleIds" />
<opc:Field Name="NoOfServerUris" TypeName="opc:Int32" />
<opc:Field Name="ServerUris" TypeName="opc:String" LengthField="NoOfServerUris" />
</opc:StructuredType>

<opc:StructuredType Name="FindServersResponse" BaseType="ua:ExtensionObject">
<opc:Documentation>Finds the servers known to the discovery server.</opc:Documentation>
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="NoOfServers" TypeName="opc:Int32" />
<opc:Field Name="Servers" TypeName="tns:ApplicationDescription" LengthField="NoOfServers" />
</opc:StructuredType>

<opc:StructuredType Name="ServerOnNetwork" BaseType="ua:ExtensionObject">
<opc:Field Name="RecordId" TypeName="opc:UInt32" />
<opc:Field Name="ServerName" TypeName="opc:String" />
<opc:Field Name="DiscoveryUrl" TypeName="opc:String" />
<opc:Field Name="NoOfServerCapabilities" TypeName="opc:Int32" />
<opc:Field Name="ServerCapabilities" TypeName="opc:String" LengthField="NoOfServerCapabilities" />
</opc:StructuredType>

<opc:StructuredType Name="FindServersOnNetworkRequest" BaseType="ua:ExtensionObject">
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="StartingRecordId" TypeName="opc:UInt32" />
<opc:Field Name="MaxRecordsToReturn" TypeName="opc:UInt32" />
<opc:Field Name="NoOfServerCapabilityFilter" TypeName="opc:Int32" />
<opc:Field Name="ServerCapabilityFilter" TypeName="opc:String" LengthField="NoOfServerCapabilityFilter" />
</opc:StructuredType>

<opc:StructuredType Name="FindServersOnNetworkResponse" BaseType="ua:ExtensionObject">
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="LastCounterResetTime" TypeName="opc:DateTime" />
<opc:Field Name="NoOfServers" TypeName="opc:Int32" />
<opc:Field Name="Servers" TypeName="tns:ServerOnNetwork" LengthField="NoOfServers" />
</opc:StructuredType>

<opc:OpaqueType Name="ApplicationInstanceCertificate">
<opc:Documentation>A certificate for an instance of an application.</opc:Documentation>
</opc:OpaqueType>
<opc:EnumeratedType Name="MessageSecurityMode" LengthInBits="32">
<opc:Documentation>The type of security to use on a message.</opc:Documentation>
<opc:EnumeratedValue Name="Invalid" Value="0" />
<opc:EnumeratedValue Name="None" Value="1" />
<opc:EnumeratedValue Name="Sign" Value="2" />
<opc:EnumeratedValue Name="SignAndEncrypt" Value="3" />
</opc:EnumeratedType>

<opc:EnumeratedType Name="UserTokenType" LengthInBits="32">
<opc:Documentation>The possible user token types.</opc:Documentation>
<opc:EnumeratedValue Name="Anonymous" Value="0" />
<opc:EnumeratedValue Name="UserName" Value="1" />
<opc:EnumeratedValue Name="Certificate" Value="2" />
<opc:EnumeratedValue Name="IssuedToken" Value="3" />
</opc:EnumeratedType>

<opc:StructuredType Name="UserTokenPolicy" BaseType="ua:ExtensionObject">
<opc:Documentation>Describes a user token that can be used with a server.</opc:Documentation>
<opc:Field Name="PolicyId" TypeName="opc:String" />
<opc:Field Name="TokenType" TypeName="tns:UserTokenType" />
<opc:Field Name="IssuedTokenType" TypeName="opc:String" />
<opc:Field Name="IssuerEndpointUrl" TypeName="opc:String" />
<opc:Field Name="SecurityPolicyUri" TypeName="opc:String" />
</opc:StructuredType>

<opc:StructuredType Name="EndpointDescription" BaseType="ua:ExtensionObject">
<opc:Documentation>The description of a endpoint that can be used to access a server.</opc:Documentation>
<opc:Field Name="EndpointUrl" TypeName="opc:String" />
<opc:Field Name="Server" TypeName="tns:ApplicationDescription" />
<opc:Field Name="ServerCertificate" TypeName="opc:ByteString" />
<opc:Field Name="SecurityMode" TypeName="tns:MessageSecurityMode" />
<opc:Field Name="SecurityPolicyUri" TypeName="opc:String" />
<opc:Field Name="NoOfUserIdentityTokens" TypeName="opc:Int32" />
<opc:Field Name="UserIdentityTokens" TypeName="tns:UserTokenPolicy" LengthField="NoOfUserIdentityTokens" />
<opc:Field Name="TransportProfileUri" TypeName="opc:String" />
<opc:Field Name="SecurityLevel" TypeName="opc:Byte" />
</opc:StructuredType>

<opc:StructuredType Name="GetEndpointsRequest" BaseType="ua:ExtensionObject">
<opc:Documentation>Gets the endpoints used by the server.</opc:Documentation>
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="EndpointUrl" TypeName="opc:String" />
<opc:Field Name="NoOfLocaleIds" TypeName="opc:Int32" />
<opc:Field Name="LocaleIds" TypeName="opc:String" LengthField="NoOfLocaleIds" />
<opc:Field Name="NoOfProfileUris" TypeName="opc:Int32" />
<opc:Field Name="ProfileUris" TypeName="opc:String" LengthField="NoOfProfileUris" />
</opc:StructuredType>
<opc:StructuredType Name="GetEndpointsResponse" BaseType="ua:ExtensionObject">
    <opc:Documentation>Gets the endpoints used by the server.</opc:Documentation>
    <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
    <opc:Field Name="NoOfEndpoints" TypeName="opc:Int32" />
    <opc:Field Name="Endpoints" TypeName="tns:EndpointDescription" LengthField="NoOfEndpoints" />
</opc:StructuredType>

<opc:StructuredType Name="RegisteredServer" BaseType="ua:ExtensionObject">
    <opc:Documentation>The information required to register a server with a discovery server.</opc:Documentation>
    <opc:Field Name="ServerUri" TypeName="opc:String" />
    <opc:Field Name="ProductUri" TypeName="opc:String" />
    <opc:Field Name="NoOfServerNames" TypeName="opc:Int32" />
    <opc:Field Name="ServerNames" TypeName="ua:LocalizedText" LengthField="NoOfServerNames" />
    <opc:Field Name="ServerType" TypeName="tns:ApplicationType" />
    <opc:Field Name="GatewayServerUri" TypeName="opc:String" />
    <opc:Field Name="NoOfDiscoveryUrls" TypeName="opc:Int32" />
    <opc:Field Name="DiscoveryUrls" TypeName="opc:String" LengthField="NoOfDiscoveryUrls" />
    <opc:Field Name="SemaphoreFilePath" TypeName="opc:String" />
    <opc:Field Name="IsOnline" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="RegisterServerRequest" BaseType="ua:ExtensionObject">
    <opc:Documentation>Registers a server with the discovery server.</opc:Documentation>
    <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
    <opc:Field Name="Server" TypeName="tns:RegisteredServer" />
</opc:StructuredType>

<opc:StructuredType Name="RegisterServerResponse" BaseType="ua:ExtensionObject">
    <opc:Documentation>Registers a server with the discovery server.</opc:Documentation>
    <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
</opc:StructuredType>

<opc:StructuredType Name="DiscoveryConfiguration" BaseType="ua:ExtensionObject">
    <opc:Documentation>A base type for discovery configuration information.</opc:Documentation>
</opc:StructuredType>

<opc:StructuredType Name="MdnsDiscoveryConfiguration" BaseType="tns:DiscoveryConfiguration">
    <opc:Documentation>The discovery information needed for mDNS registration.</opc:Documentation>
    <opc:Field Name="MdnsServerName" TypeName="opc:String" />
    <opc:Field Name="NoOfServerCapabilities" TypeName="opc:Int32" />
    <opc:Field Name="ServerCapabilities" TypeName="opc:String" LengthField="NoOfServerCapabilities" />
</opc:StructuredType>

<opc:StructuredType Name="RegisterServer2Request" BaseType="ua:ExtensionObject">
    <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
    <opc:Field Name="Server" TypeName="tns:RegisteredServer" />
    <opc:Field Name="NoOfDiscoveryConfiguration" TypeName="opc:Int32" />
</opc:StructuredType>
<opc:Field Name="DiscoveryConfiguration" TypeName="ua:ExtensionObject"
LengthField="NoOfDiscoveryConfiguration" />
</opc:StructuredType>

<opc:StructuredType Name="RegisterServer2Response" BaseType="ua:ExtensionObject">
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="NoOfConfigurationResults" TypeName="opc:Int32"
LengthField="NoOfConfigurationResults" />
<opc:Field Name="ConfigurationResults" TypeName="ua:StatusCode"
LengthField="NoOfConfigurationResults" />
<opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
<opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo"
LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:EnumeratedType Name="SecurityTokenRequestType" LengthInBits="32">
<opc:Documentation>Indicates whether a token is being created or renewed.</opc:Documentation>
<opc:EnumeratedValue Name="Issue" Value="0" />
<opc:EnumeratedValue Name="Renew" Value="1" />
</opc:EnumeratedType>

<opc:StructuredType Name="ChannelSecurityToken" BaseType="ua:ExtensionObject">
<opc:Documentation>The token that identifies a set of keys for an active secure channel.</opc:Documentation>
<opc:Field Name="ChannelId" TypeName="opc:UInt32" />
<opc:Field Name="TokenId" TypeName="opc:UInt32" />
<opc:Field Name="CreatedAt" TypeName="opc:DateTime" />
<opc:Field Name="RevisedLifetime" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="OpenSecureChannelRequest" BaseType="ua:ExtensionObject">
<opc:Documentation>Creates a secure channel with a server.</opc:Documentation>
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="ClientProtocolVersion" TypeName="opc:UInt32" />
<opc:Field Name="RequestType" TypeName="tns:SecurityTokenRequestType" />
<opc:Field Name="SecurityMode" TypeName="tns:MessageSecurityMode" />
<opc:Field Name="ClientNonce" TypeName="opc:ByteString" />
<opc:Field Name="RequestedLifetime" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="OpenSecureChannelResponse" BaseType="ua:ExtensionObject">
<opc:Documentation>Creates a secure channel with a server.</opc:Documentation>
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="ServerProtocolVersion" TypeName="opc:UInt32" />
<opc:Field Name="SecurityToken" TypeName="tns:ChannelSecurityToken" />
<opc:Field Name="ServerNonce" TypeName="opc:ByteString" />
</opc:StructuredType>

<opc:StructuredType Name="CloseSecureChannelRequest" BaseType="ua:ExtensionObject">
<opc:Documentation>Closes a secure channel.</opc:Documentation>
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
</opc:StructuredType>
<opc:StructuredType Name="CloseSecureChannelResponse" BaseType="ua:ExtensionObject">
<opc:Documentation>Closes a secure channel.</opc:Documentation>
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
</opc:StructuredType>

<opc:StructuredType Name="SignedSoftwareCertificate" BaseType="ua:ExtensionObject">
<opc:Documentation>A software certificate with a digital signature.</opc:Documentation>
<opc:Field Name="CertificateData" TypeName="opc:ByteString" />
<opc:Field Name="Signature" TypeName="opc:ByteString" />
</opc:StructuredType>

<opc:OpaqueType Name="SessionAuthenticationToken">
<opc:Documentation>A unique identifier for a session used to authenticate requests.</opc:Documentation>
</opc:OpaqueType>

<opc:StructuredType Name="SignatureData" BaseType="ua:ExtensionObject">
<opc:Documentation>A digital signature.</opc:Documentation>
<opc:Field Name="Algorithm" TypeName="opc:String" />
<opc:Field Name="Signature" TypeName="opc:ByteString" />
</opc:StructuredType>

<opc:StructuredType Name="CreateSessionRequest" BaseType="ua:ExtensionObject">
<opc:Documentation>Creates a new session with the server.</opc:Documentation>
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="ClientDescription" TypeName="tns:ApplicationDescription" />
<opc:Field Name="ServerUri" TypeName="opc:String" />
<opc:Field Name="EndpointUrl" TypeName="opc:String" />
<opc:Field Name="SessionName" TypeName="opc:String" />
<opc:Field Name="ClientNonce" TypeName="opc:ByteString" />
<opc:Field Name="ClientCertificate" TypeName="opc:ByteString" />
<opc:Field Name="RequestedSessionTimeout" TypeName="opc:Double" />
<opc:Field Name="MaxResponseMessageSize" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="CreateSessionResponse" BaseType="ua:ExtensionObject">
<opc:Documentation>Creates a new session with the server.</opc:Documentation>
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="SessionId" TypeName="ua:NodeId" />
<opc:Field Name="AuthenticationToken" TypeName="ua:NodeId" />
<opc:Field Name="RevisedSessionTimeout" TypeName="opc:Double" />
<opc:Field Name="ServerNonce" TypeName="opc:ByteString" />
<opc:Field Name="ServerCertificate" TypeName="opc:ByteString" />
<opc:Field Name="NoOfServerEndpoints" TypeName="opc:Int32" />
<opc:Field Name="ServerEndpoints" TypeName="tns:EndpointDescription" LengthField="NoOfServerEndpoints" />
<opc:Field Name="NoOfServerSoftwareCertificates" TypeName="opc:Int32" />
</opc:StructuredType>
<opc:Field Name="ServerSoftwareCertificates" TypeName="tns:SignedSoftwareCertificate" LengthField="NoOfServerSoftwareCertificates" />
<opc:Field Name="ServerSignature" TypeName="tns:SignatureData" />
<opc:Field Name="MaxRequestMessageSize" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="UserIdentityToken" BaseType="ua:ExtensionObject">
<opc:Documentation>A base type for a user identity token.</opc:Documentation>
<opc:Field Name="PolicyId" TypeName="opc:String" />
</opc:StructuredType>

<opc:StructuredType Name="AnonymousIdentityToken" BaseType="tns:UserIdentityToken">
<opc:Documentation>A token representing an anonymous user.</opc:Documentation>
<opc:Field Name="PolicyId" TypeName="opc:String" SourceType="tns:UserIdentityToken" />
</opc:StructuredType>

<opc:StructuredType Name="UserNameIdentityToken" BaseType="tns:UserIdentityToken">
<opc:Documentation>A token representing a user identified by a user name and password.</opc:Documentation>
<opc:Field Name="PolicyId" TypeName="opc:String" SourceType="tns:UserIdentityToken" />
<opc:Field Name="UserName" TypeName="opc:String" />
<opc:Field Name="Password" TypeName="opc:ByteString" />
<opc:Field Name="EncryptionAlgorithm" TypeName="opc:String" />
</opc:StructuredType>

<opc:StructuredType Name="X509IdentityToken" BaseType="tns:UserIdentityToken">
<opc:Documentation>A token representing a user identified by an X509 certificate.</opc:Documentation>
<opc:Field Name="PolicyId" TypeName="opc:String" SourceType="tns:UserIdentityToken" />
<opc:Field Name="CertificateData" TypeName="opc:ByteString" />
</opc:StructuredType>

<opc:StructuredType Name="IssuedIdentityToken" BaseType="tns:UserIdentityToken">
<opc:Documentation>A token representing a user identified by a WS-Security XML token.</opc:Documentation>
<opc:Field Name="PolicyId" TypeName="opc:String" SourceType="tns:UserIdentityToken" />
<opc:Field Name="TokenData" TypeName="opc:ByteString" />
<opc:Field Name="EncryptionAlgorithm" TypeName="opc:String" />
</opc:StructuredType>

<opc:OpaqueType Name="RsaEncryptedSecret">
</opc:OpaqueType>

<opc:StructuredType Name="ActivateSessionRequest" BaseType="ua:ExtensionObject">
<opc:Documentation>Activates a session with the server.</opc:Documentation>
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="ClientSignature" TypeName="tns:SignatureData" />
<opc:Field Name="NoOfClientSoftwareCertificates" TypeName="opc:Int32" />
<opc:Field Name="ClientSoftwareCertificates" TypeName="tns:SignedSoftwareCertificate" LengthField="NoOfClientSoftwareCertificates" />
<opc:Field Name="NoOfLocaleIds" TypeName="opc:Int32" />
</opc:StructuredType>
<opc:Field Name="LocaleIds" TypeName="opc:String" LengthField="NoOfLocaleIds" />
<opc:Field Name="UserIdentityToken" TypeName="ua:ExtensionObject" />
<opc:Field Name="UserTokenSignature" TypeName="tns:SignatureData" />
</opc:StructuredType>

<opc:StructuredType Name="ActivateSessionResponse" BaseType="ua:ExtensionObject">
<opc:Documentation>Activates a session with the server.</opc:Documentation>
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="ServerNonce" TypeName="opc:ByteString" />
<opc:Field Name="NoOfResults" TypeName="opc:Int32" />
<opc:Field Name="Results" TypeName="ua:StatusCode" LengthField="NoOfResults" />
<opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
<opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="CloseSessionRequest" BaseType="ua:ExtensionObject">
<opc:Documentation>Closes a session with the server.</opc:Documentation>
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="DeleteSubscriptions" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="CloseSessionResponse" BaseType="ua:ExtensionObject">
<opc:Documentation>Closes a session with the server.</opc:Documentation>
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
</opc:StructuredType>

<opc:StructuredType Name="CancelRequest" BaseType="ua:ExtensionObject">
<opc:Documentation>Cancels an outstanding request.</opc:Documentation>
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="RequestHandle" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="CancelResponse" BaseType="ua:ExtensionObject">
<opc:Documentation>Cancels an outstanding request.</opc:Documentation>
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="CancelCount" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:EnumeratedType Name="NodeAttributesMask" LengthInBits="32">
<opc:Documentation>The bits used to specify default attributes for a new node.</opc:Documentation>
<opc:EnumeratedValue Name="None" Value="0" />
<opc:EnumeratedValue Name="AccessLevel" Value="1" />
<opc:EnumeratedValue Name="ArrayDimensions" Value="2" />
<opc:EnumeratedValue Name="BrowseName" Value="4" />
<opc:EnumeratedValue Name="ContainsNoLoops" Value="8" />
<opc:EnumeratedValue Name="DataType" Value="16" />
<opc:EnumeratedValue Name="Description" Value="32" />
<opc:EnumeratedValue Name="DisplayName" Value="64" />
</opc:EnumeratedType>
<opc:EnumeratedValue Name="EventNotifier" Value="128" />
<opc:EnumeratedValue Name="Executable" Value="256" />
<opc:EnumeratedValue Name="Historizing" Value="512" />
<opc:EnumeratedValue Name="InverseName" Value="1024" />
<opc:EnumeratedValue Name="IsAbstract" Value="2048" />
<opc:EnumeratedValue Name="MinimumSamplingInterval" Value="4096" />
<opc:EnumeratedValue Name="NodeClass" Value="8192" />
<opc:EnumeratedValue Name="NodeId" Value="16384" />
<opc:EnumeratedValue Name="Symmetric" Value="32768" />
<opc:EnumeratedValue Name="UserAccessLevel" Value="65536" />
<opc:EnumeratedValue Name="UserExecutable" Value="131072" />
<opc:EnumeratedValue Name="UserWriteMask" Value="262144" />
<opc:EnumeratedValue Name="ValueRank" Value="524288" />
<opc:EnumeratedValue Name="WriteMask" Value="2097152" />
<opc:EnumeratedValue Name="DataTypeDefinition" Value="4194304" />
<opc:EnumeratedValue Name="RolePermissions" Value="8388608" />
<opc:EnumeratedValue Name="AccessRestrictions" Value="16777216" />
<opc:EnumeratedValue Name="All" Value="33554431" />
<opc:EnumeratedValue Name="BaseNode" Value="26501220" />
<opc:EnumeratedValue Name="Object" Value="26501348" />
<opc:EnumeratedValue Name="ObjectType" Value="26503268" />
<opc:EnumeratedValue Name="Variable" Value="26571383" />
<opc:EnumeratedValue Name="VariableType" Value="28600438" />
<opc:EnumeratedValue Name="Method" Value="26632548" />
<opc:EnumeratedValue Name="ReferenceType" Value="26537060" />
<opc:EnumeratedValue Name="View" Value="26501356" />
</opc:EnumeratedType>

<opc:StructuredType Name="NodeAttributes" BaseType="ua:ExtensionObject">
  <opc:Documentation>The base attributes for all nodes.</opc:Documentation>
  <opc:Field Name="SpecifiedAttributes" TypeName="opc:UInt32" />
  <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" />
  <opc:Field Name="Description" TypeName="ua:LocalizedText" />
  <opc:Field Name="WriteMask" TypeName="opc:UInt32" />
  <opc:Field Name="UserWriteMask" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="ObjectAttributes" BaseType="tns:NodeAttributes">
  <opc:Documentation>The attributes for an object node.</opc:Documentation>
  <opc:Field Name="SpecifiedAttributes" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
  <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
  <opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
  <opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
  <opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
  <opc:Field Name="EventNotifier" TypeName="opc:Byte" />
</opc:StructuredType>
<opc:StructuredType Name="VariableAttributes" BaseType="tns:NodeAttributes">
<opc:Documentation>The attributes for a variable node.</opc:Documentation>
<opc:Field Name="SpecifiedAttributes" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
<opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
<opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
<opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
<opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
<opc:Field Name="Value" TypeName="ua:Variant" />
<opc:Field Name="DataType" TypeName="ua:NodeId" />
<opc:Field Name="ValueRank" TypeName="opc:Int32" />
<opc:Field Name="NoOfArrayDimensions" TypeName="opc:Int32" />
<opc:Field Name="ArrayDimensions" TypeName="opc:UInt32" LengthField="NoOfArrayDimensions" />
<opc:Field Name="AccessLevel" TypeName="opc:Byte" />
<opc:Field Name="MinimumSamplingInterval" TypeName="opc:Double" />
<opc:Field Name="Historizing" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="MethodAttributes" BaseType="tns:NodeAttributes">
<opc:Documentation>The attributes for a method node.</opc:Documentation>
<opc:Field Name="SpecifiedAttributes" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
<opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
<opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
<opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
<opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
<opc:Field Name="Executable" TypeName="opc:Boolean" />
<opc:Field Name="UserExecutable" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="ObjectTypeAttributes" BaseType="tns:NodeAttributes">
<opc:Documentation>The attributes for an object type node.</opc:Documentation>
<opc:Field Name="SpecifiedAttributes" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
<opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
<opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
<opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
<opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
<opc:Field Name="IsAbstract" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="VariableTypeAttributes" BaseType="tns:NodeAttributes">
<opc:Documentation>The attributes for a variable type node.</opc:Documentation>
<opc:Field Name="SpecifiedAttributes" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
<opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
<opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
<opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
<opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
<opc:Field Name="Value" TypeName="ua:Variant" />
<opc:Field Name="DataType" TypeName="ua:NodeId" />
</opc:StructuredType>
<opc:StructuredType Name="AddNodesItem" BaseType="ua:ExtensionObject">
  <opc:Documentation>A request to add a node to the server address space.</opc:Documentation>
  <opc:Field Name="ParentNodeId" TypeName="ua:ExpandedNodeId" />
  <opc:Field Name="ReferenceTypeId" TypeName="ua:NodeId" />
  <opc:Field Name="RequestedNewNodeId" TypeName="ua:ExpandedNodeId" />
  <opc:Field Name="BrowseName" TypeName="ua:QualifiedName" />
  <opc:Field Name="NodeClass" TypeName="tns:NodeClass" />
  <opc:Field Name="NodeAttributes" TypeName="ua:ExtensionObject" />
  <opc:Field Name="TypeDefinition" TypeName="ua:ExpandedNodeId" />
</opc:StructuredType>

<opc:StructuredType Name="AddNodesResult" BaseType="ua:ExtensionObject">
  <opc:Documentation>A result of an add node operation.</opc:Documentation>
  <opc:Field Name="StatusCode" TypeName="ua:StatusCode" />
  <opc:Field Name="AddedNodeId" TypeName="ua:NodeId" />
</opc:StructuredType>

<opc:StructuredType Name="AddNodesRequest" BaseType="ua:ExtensionObject">
  <opc:Documentation>Adds one or more nodes to the server address space.</opc:Documentation>
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="NoOfNodesToAdd" TypeName="opc:Int32" />
  <opc:Field Name="NodesToAdd" TypeName="tns:AddNodesItem" LengthField="NoOfNodesToAdd" />
</opc:StructuredType>

<opc:StructuredType Name="AddNodesResponse" BaseType="ua:ExtensionObject">
  <opc:Documentation>Adds one or more nodes to the server address space.</opc:Documentation>
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
  <opc:Field Name="Results" TypeName="tns:AddNodesResult" LengthField="NoOfResults" />
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="AddReferencesItem" BaseType="ua:ExtensionObject">
  <opc:Documentation>A request to add a reference to the server address space.</opc:Documentation>
  <opc:Field Name="SourceNodeId" TypeName="ua:NodeId" />
  <opc:Field Name="ReferenceTypeId" TypeName="ua:NodeId" />
  <opc:Field Name="IsForward" TypeName="opc:Boolean" />
  <opc:Field Name="TargetServerUri" TypeName="opc:String" />
  <opc:Field Name="TargetNodeId" TypeName="ua:ExpandedNodeId" />
  <opc:Field Name="TargetNodeClass" TypeName="tns:NodeClass" />
</opc:StructuredType>
<opc:StructuredType Name="AddReferencesRequest" BaseType="ua:ExtensionObject">
<opc:Documentation>Adds one or more references to the server address space.</opc:Documentation>
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="NoOfReferencesToAdd" TypeName="opc:Int32" />
<opc:Field Name="ReferencesToAdd" TypeName="tns:AddReferencesItem" LengthField="NoOfReferencesToAdd" />
</opc:StructuredType>

<opc:StructuredType Name="AddReferencesResponse" BaseType="ua:ExtensionObject">
<opc:Documentation>Adds one or more references to the server address space.</opc:Documentation>
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="NoOfResults" TypeName="opc:Int32" />
<opc:Field Name="Results" TypeName="ua:StatusCode" LengthField="NoOfResults" />
<opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
<opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteNodesItem" BaseType="ua:ExtensionObject">
<opc:Documentation>A request to delete a node to the server address space.</opc:Documentation>
<opc:Field Name="NodeId" TypeName="ua:NodeId" />
<opc:Field Name="DeleteTargetReferences" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteNodesRequest" BaseType="ua:ExtensionObject">
<opc:Documentation>Delete one or more nodes from the server address space.</opc:Documentation>
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="NoOfNodesToDelete" TypeName="opc:Int32" />
<opc:Field Name="NodesToDelete" TypeName="tns:DeleteNodesItem" LengthField="NoOfNodesToDelete" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteNodesResponse" BaseType="ua:ExtensionObject">
<opc:Documentation>Delete one or more nodes from the server address space.</opc:Documentation>
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="NoOfResults" TypeName="opc:Int32" />
<opc:Field Name="Results" TypeName="ua:StatusCode" LengthField="NoOfResults" />
<opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
<opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteReferencesItem" BaseType="ua:ExtensionObject">
<opc:Documentation>A request to delete a node from the server address space.</opc:Documentation>
<opc:Field Name="SourceNodeId" TypeName="ua:NodeId" />
<opc:Field Name="ReferenceTypeId" TypeName="ua:NodeId" />
<opc:Field Name="IsForward" TypeName="opc:Boolean" />
<opc:Field Name="TargetNodeId" TypeName="ua:ExpandedNodeId" />
<opc:Field Name="DeleteBidirectional" TypeName="opc:Boolean" />
</opc:StructuredType>
<opc:StructuredType Name="DeleteReferencesRequest" BaseType="ua:ExtensionObject">
    <opc:Documentation>Delete one or more references from the server address space.</opc:Documentation>
    <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
    <opc:Field Name="NoOfReferencesToDelete" TypeName="opc:Int32" />
    <opc:Field Name="ReferencesToDelete" TypeName="tns:DeleteReferencesItem" LengthField="NoOfReferencesToDelete" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteReferencesResponse" BaseType="ua:ExtensionObject">
    <opc:Documentation>Delete one or more references from the server address space.</opc:Documentation>
    <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
    <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
    <opc:Field Name="Results" TypeName="ua:StatusCode" LengthField="NoOfResults" />
    <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
    <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:EnumeratedType Name="AttributeWriteMask" LengthInBits="32" IsOptionSet="true">
    <opc:Documentation>Define bits used to indicate which attributes are writable.</opc:Documentation>
    <opc:EnumeratedValue Name="None" Value="0" />
    <opc:EnumeratedValue Name="AccessLevel" Value="1" />
    <opc:EnumeratedValue Name="ArrayDimensions" Value="2" />
    <opc:EnumeratedValue Name="BrowseName" Value="4" />
    <opc:EnumeratedValue Name="ContainsNoLoops" Value="8" />
    <opc:EnumeratedValue Name="DataType" Value="16" />
    <opc:EnumeratedValue Name="Description" Value="32" />
    <opc:EnumeratedValue Name="DisplayName" Value="64" />
    <opc:EnumeratedValue Name="EventNotifier" Value="128" />
    <opc:EnumeratedValue Name="Executable" Value="256" />
    <opc:EnumeratedValue Name="Historizing" Value="512" />
    <opc:EnumeratedValue Name="InverseName" Value="1024" />
    <opc:EnumeratedValue Name="IsAbstract" Value="2048" />
    <opc:EnumeratedValue Name="MinimumSamplingInterval" Value="4096" />
    <opc:EnumeratedValue Name="NodeClass" Value="8192" />
    <opc:EnumeratedValue Name="NodeId" Value="16384" />
    <opc:EnumeratedValue Name="Symmetric" Value="32768" />
    <opc:EnumeratedValue Name="UserAccessLevel" Value="65536" />
    <opc:EnumeratedValue Name="UserExecutable" Value="131072" />
    <opc:EnumeratedValue Name="UserWriteMask" Value="262144" />
    <opc:EnumeratedValue Name="ValueRank" Value="524288" />
    <opc:EnumeratedValue Name="WriteMask" Value="1048576" />
    <opc:EnumeratedValue Name="ValueForVariableType" Value="2097152" />
    <opc:EnumeratedValue Name="DataTypeDefinition" Value="4194304" />
    <opc:EnumeratedValue Name="RolePermissions" Value="8388608" />
    <opc:EnumeratedValue Name="AccessRestrictions" Value="16777216" />
    <opc:EnumeratedValue Name="AccessLevelEx" Value="33554432" />
</opc:EnumeratedType>
<opc:EnumeratedType Name="BrowseDirection" LengthInBits="32">
<opc:Documentation>The directions of the references to return.</opc:Documentation>
<opc:EnumeratedValue Name="Forward" Value="0" />
<opc:EnumeratedValue Name="Inverse" Value="1" />
<opc:EnumeratedValue Name="Both" Value="2" />
<opc:EnumeratedValue Name="Invalid" Value="3" />
</opc:EnumeratedType>

<opc:StructuredType Name="ViewDescription" BaseType="ua:ExtensionObject">
<opc:Documentation>The view to browse.</opc:Documentation>
<opc:Field Name="ViewId" TypeName="ua:NodeId" />
<opc:Field Name="Timestamp" TypeName="opc:DateTime" />
<opc:Field Name="ViewVersion" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="BrowseDescription" BaseType="ua:ExtensionObject">
<opc:Documentation>A request to browse the references from a node.</opc:Documentation>
<opc:Field Name="NodeId" TypeName="ua:NodeId" />
<opc:Field Name="BrowseDirection" TypeName="tns:BrowseDirection" />
<opc:Field Name="ReferenceTypeId" TypeName="ua:NodeId" />
<opc:Field Name="IncludeSubtypes" TypeName="opc:Boolean" />
<opc:Field Name="NodeClassMask" TypeName="opc:UInt32" />
<opc:Field Name="ResultMask" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:EnumeratedType Name="BrowseResultMask" LengthInBits="32">
<opc:Documentation>A bit mask which specifies what should be returned in a browse response.</opc:Documentation>
<opc:EnumeratedValue Name="None" Value="0" />
<opc:EnumeratedValue Name="ReferenceTypeId" Value="1" />
<opc:EnumeratedValue Name="IsForward" Value="2" />
<opc:EnumeratedValue Name="NodeClass" Value="4" />
<opc:EnumeratedValue Name="BrowseName" Value="8" />
<opc:EnumeratedValue Name="DisplayName" Value="16" />
<opc:EnumeratedValue Name="TypeDefinition" Value="32" />
<opc:EnumeratedValue Name="All" Value="63" />
</opc:EnumeratedType>

<opc:StructuredType Name="ReferenceDescription" BaseType="ua:ExtensionObject">
<opc:Documentation>The description of a reference.</opc:Documentation>
<opc:Field Name="ReferenceTypeId" TypeName="ua:NodeId" />
<opc:Field Name="IsForward" TypeName="opc:Boolean" />
<opc:Field Name="NodeId" TypeName="ua:ExpandedNodeId" />
<opc:Field Name="BrowseName" TypeName="ua:QualifiedName" />
<opc:StructuredType Name="RelativePathElement" BaseType="ua:ExtensionObject">
  <opc:Documentation>An element in a relative path.</opc:Documentation>
  <opc:Field Name="ReferenceTypId" TypeName="ua:NodeId" />
  <opc:Field Name="IsInverse" TypeName="opc:Boolean" />
  <opc:Field Name="IncludeSubtypes" TypeName="opc:Boolean" />
  <opc:Field Name="TargetName" TypeName="ua:QualifiedName" />
</opc:StructuredType>

<opc:StructuredType Name="RelativePath" BaseType="ua:ExtensionObject">
  <opc:Documentation>A relative path constructed from reference types and browse names.</opc:Documentation>
  <opc:Field Name="NoOfElements" TypeName="opc:Int32" />
  <opc:Field Name="Elements" TypeName="tns:RelativePathElement" LengthField="NoOfElements" />
</opc:StructuredType>

<opc:StructuredType Name="BrowsePath" BaseType="ua:ExtensionObject">
  <opc:Documentation>A request to translate a path into a node id.</opc:Documentation>
  <opc:Field Name="StartingNode" TypeName="ua:NodeId" />
  <opc:Field Name="RelativePath" TypeName="tns:RelativePath" />
</opc:StructuredType>

<opc:StructuredType Name="BrowsePathTarget" BaseType="ua:ExtensionObject">
  <opc:Documentation>The target of the translated path.</opc:Documentation>
  <opc:Field Name="TargetId" TypeName="ua:ExpandedNodeId" />
  <opc:Field Name="RemainingPathIndex" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="BrowsePathResult" BaseType="ua:ExtensionObject">
  <opc:Documentation>The result of a translate operation.</opc:Documentation>
  <opc:Field Name="StatusCode" TypeName="ua:StatusCode" />
  <opc:Field Name="NoOfTargets" TypeName="opc:Int32" />
  <opc:Field Name="Targets" TypeName="tns:BrowsePathTarget" LengthField="NoOfTargets" />
</opc:StructuredType>

<opc:StructuredType Name="TranslateBrowsePathsToNodeIdsRequest" BaseType="ua:ExtensionObject">
  <opc:Documentation>Translates one or more paths in the server address space.</opc:Documentation>
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="NoOfBrowsePaths" TypeName="opc:Int32" />
  <opc:Field Name="BrowsePaths" TypeName="tns:BrowsePath" LengthField="NoOfBrowsePaths" />
</opc:StructuredType>

<opc:StructuredType Name="TranslateBrowsePathsToNodeIdsResponse" BaseType="ua:ExtensionObject"/>
<opc:Documentation>Translates one or more paths in the server address space.</opc:Documentation>
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="NoOfResults" TypeName="opc:Int32" />
<opc:Field Name="Results" TypeName="tns:BrowsePathResult" LengthField="NoOfResults" />
<opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
<opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="RegisterNodesRequest" BaseType="ua:ExtensionObject">
<opc:Documentation>Registers one or more nodes for repeated use within a session.</opc:Documentation>
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="NoOfNodesToRegister" TypeName="opc:Int32" />
<opc:Field Name="NodesToRegister" TypeName="ua:NodeId" LengthField="NoOfNodesToRegister" />
</opc:StructuredType>

<opc:StructuredType Name="RegisterNodesResponse" BaseType="ua:ExtensionObject">
<opc:Documentation>Registers one or more nodes for repeated use within a session.</opc:Documentation>
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="NoOfRegisteredNodeIds" TypeName="opc:Int32" />
<opc:Field Name="RegisteredNodeIds" TypeName="ua:NodeId" LengthField="NoOfRegisteredNodeIds" />
</opc:StructuredType>

<opc:StructuredType Name="UnregisterNodesRequest" BaseType="ua:ExtensionObject">
<opc:Documentation>Unregisters one or more previously registered nodes.</opc:Documentation>
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="NoOfNodesToUnregister" TypeName="opc:Int32" />
<opc:Field Name="NodesToUnregister" TypeName="ua:NodeId" LengthField="NoOfNodesToUnregister" />
</opc:StructuredType>

<opc:StructuredType Name="UnregisterNodesResponse" BaseType="ua:ExtensionObject">
<opc:Documentation>Unregisters one or more previously registered nodes.</opc:Documentation>
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
</opc:StructuredType>

<opc:OpaqueType Name="Counter">
<opc:Documentation>A monotonically increasing value.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="NumericRange">
<opc:Documentation>Specifies a range of array indexes.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="Time">
<opc:Documentation>A time value specified as HH:MM:SS.SSS.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="Date">
<opc:Documentation>A date value.</opc:Documentation>
</opc:OpaqueType>
<opc:StructuredType Name="EndpointConfiguration" BaseType="ua:ExtensionObject">
  <opc:Field Name="OperationTimeout" TypeName="opc:Int32" />
  <opc:Field Name="UseBinaryEncoding" TypeName="opc:Boolean" />
  <opc:Field Name="MaxStringLength" TypeName="opc:Int32" />
  <opc:Field Name="MaxByteStringLength" TypeName="opc:Int32" />
  <opc:Field Name="MaxArrayLength" TypeName="opc:Int32" />
  <opc:Field Name="MaxMessageSize" TypeName="opc:Int32" />
  <opc:Field Name="MaxBufferSize" TypeName="opc:Int32" />
  <opc:Field Name="ChannelLifetime" TypeName="opc:Int32" />
  <opc:Field Name="SecurityTokenLifetime" TypeName="opc:Int32" />
</opc:StructuredType>

<opc:StructuredType Name="QueryDataDescription" BaseType="ua:ExtensionObject">
  <opc:Field Name="RelativePath" TypeName="tns:RelativePath" />
  <opc:Field Name="AttributeId" TypeName="opc:UInt32" />
  <opc:Field Name="IndexRange" TypeName="opc:String" />
</opc:StructuredType>

<opc:StructuredType Name="NodeTypeDescription" BaseType="ua:ExtensionObject">
  <opc:Field Name="TypeDefinitionNode" TypeName="ua:ExpandedNodeId" />
  <opc:Field Name="IncludeSubTypes" TypeName="opc:Boolean" />
  <opc:Field Name="NoOfDataToReturn" TypeName="opc:Int32" />
  <opc:Array Name="DataToReturn" Schema="tns:QueryDataDescription" LengthField="NoOfDataToReturn" />
</opc:StructuredType>

<opc:EnumeratedType Name="FilterOperator" LengthInBits="32">
  <opc:EnumeratedValue Name="Equals" Value="0" />
  <opc:EnumeratedValue Name="IsNull" Value="1" />
  <opc:EnumeratedValue Name="GreaterThan" Value="2" />
  <opc:EnumeratedValue Name="LessThan" Value="3" />
  <opc:EnumeratedValue Name="GreaterThanOrEqual" Value="4" />
  <opc:EnumeratedValue Name="LessThanOrEqual" Value="5" />
  <opc:EnumeratedValue Name="Like" Value="6" />
  <opc:EnumeratedValue Name="Not" Value="7" />
  <opc:EnumeratedValue Name="Between" Value="8" />
  <opc:EnumeratedValue Name="InList" Value="9" />
  <opc:EnumeratedValue Name="And" Value="10" />
  <opc:EnumeratedValue Name="Or" Value="11" />
  <opc:EnumeratedValue Name="Cast" Value="12" />
  <opc:EnumeratedValue Name="InView" Value="13" />
  <opc:EnumeratedValue Name="OfType" Value="14" />
  <opc:EnumeratedValue Name="RelatedTo" Value="15" />
  <opc:EnumeratedValue Name="BitwiseAnd" Value="16" />
  <opc:EnumeratedValue Name="BitwiseOr" Value="17" />
</opc:EnumeratedType>
<opc:StructuredType Name="QueryDataSet" BaseType="ua:ExtensionObject">
  <opc:Field Name="NodeId" TypeName="ua:ExpandedNodeId" />
  <opc:Field Name="TypeDefinitionNode" TypeName="ua:ExpandedNodeId" />
  <opc:Field Name="NoOfValues" TypeName="opc:Int32" />
  <opc:Field Name="Values" TypeName="ua:Variant" LengthField="NoOfValues" />
</opc:StructuredType>

<opc:StructuredType Name="NodeReference" BaseType="ua:ExtensionObject">
  <opc:Field Name="NodeId" TypeName="ua:NodeId" />
  <opc:Field Name="ReferenceTypeId" TypeName="ua:NodeId" />
  <opc:Field Name="IsForward" TypeName="opc:Boolean" />
  <opc:Field Name="NoOfReferencedNodeIds" TypeName="opc:Int32" />
  <opc:Field Name="ReferencedNodeIds" TypeName="ua:NodeId" LengthField="NoOfReferencedNodeIds" />
</opc:StructuredType>

<opc:StructuredType Name="ContentFilterElement" BaseType="ua:ExtensionObject">
  <opc:Field Name="FilterOperator" TypeName="tns:FilterOperator" />
  <opc:Field Name="NoOfFilterOperands" TypeName="opc:Int32" />
  <opc:Field Name="FilterOperands" TypeName="ua:ExtensionObject" LengthField="NoOfFilterOperands" />
</opc:StructuredType>

<opc:StructuredType Name="ContentFilter" BaseType="ua:ExtensionObject">
  <opc:Field Name="NoOfElements" TypeName="opc:Int32" />
  <opc:Field Name="Elements" TypeName="tns:ContentFilterElement" LengthField="NoOfElements" />
</opc:StructuredType>

<opc:StructuredType Name="FilterOperand" BaseType="ua:ExtensionObject">
</opc:StructuredType>

<opc:StructuredType Name="ElementOperand" BaseType="tns:FilterOperand">
  <opc:Field Name="Index" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="LiteralOperand" BaseType="tns:FilterOperand">
  <opc:Field Name="Value" TypeName="ua:Variant" />
</opc:StructuredType>

<opc:StructuredType Name="AttributeOperand" BaseType="tns:FilterOperand">
  <opc:Field Name="NodeId" TypeName="ua:NodeId" />
  <opc:Field Name="Alias" TypeName="opc:String" />
  <opc:Field Name="BrowsePath" TypeName="tns:RelativePath" />
  <opc:Field Name="AttributeId" TypeName="opc:UInt32" />
  <opc:Field Name="IndexRange" TypeName="opc:String" />
</opc:StructuredType>

<opc:StructuredType Name="SimpleAttributeOperand" BaseType="tns:FilterOperand">
  <opc:Field Name="TypeDefinitionId" TypeName="ua:NodeId" />
</opc:StructuredType>
<opc:Field Name="NoOfBrowsePath" TypeName="opc:Int32" />
<opc:Field Name="BrowsePath" TypeName="ua:QualifiedName" LengthField="NoOfBrowsePath" />
<opc:Field Name="AttributeId" TypeName="opc:UInt32" />
<opc:Field Name="IndexRange" TypeName="opc:String" />
</opc:StructuredType>

<opc:StructuredType Name="ContentFilterElementResult" BaseType="ua:ExtensionObject">
<opc:Field Name="StatusCode" TypeName="ua:StatusCode" />
<opc:Field Name="NoOfOperandStatusCodes" TypeName="opc:Int32" />
<opc:Field Name="OperandStatusCodes" TypeName="ua:StatusCode" LengthField="NoOfOperandStatusCodes" />
<opc:Field Name="NoOfOperandDiagnosticInfos" TypeName="opc:Int32" />
<opc:Field Name="OperandDiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfOperandDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="ContentFilterResult" BaseType="ua:ExtensionObject">
<opc:Field Name="NoOfElementResults" TypeName="opc:Int32" />
<opc:Field Name="ElementResults" TypeName="tns:ContentFilterElementResult" LengthField="NoOfElementResults" />
<opc:Field Name="NoOfElementDiagnosticInfos" TypeName="opc:Int32" />
<opc:Field Name="ElementDiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfElementDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="ParsingResult" BaseType="ua:ExtensionObject">
<opc:Field Name="StatusCode" TypeName="ua:StatusCode" />
<opc:Field Name="NoOfDataStatusCodes" TypeName="opc:Int32" />
<opc:Field Name="DataStatusCodes" TypeName="ua:StatusCode" LengthField="NoOfDataStatusCodes" />
<opc:Field Name="NoOfDataDiagnosticInfos" TypeName="opc:Int32" />
<opc:Field Name="DataDiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDataDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="QueryFirstRequest" BaseType="ua:ExtensionObject">
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />  
<opc:Field Name="View" TypeName="tns:ViewDescription" /> 
<opc:Field Name="NoOfNodeTypes" TypeName="opc:Int32" />
<opc:Field Name="NodeTypes" TypeName="tns:NodeTypeDescription" LengthField="NoOfNodeTypes" />
<opc:Field Name="Filter" TypeName="tns:ContentFilter" />
<opc:Field Name="MaxDataSetsToReturn" TypeName="opc:UInt32" />
<opc:Field Name="MaxReferencesToReturn" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="QueryFirstResponse" BaseType="ua:ExtensionObject">
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="NoOfQueryDataSets" TypeName="opc:Int32" />
<opc:Field Name="QueryDataSets" TypeName="tns:QueryDataSet" LengthField="NoOfQueryDataSets" />
</opc:StructuredType>
<opc:Field Name="ContinuationPoint" TypeName="opc:ByteString" />
<opc:Field Name="NoOfParsingResults" TypeName="opc:Int32" />
<opc:Field Name="ParsingResults" TypeName="tns:ParsingResult" LengthField="NoOfParsingResults" />
<opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
<opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
<opc:Field Name="FilterResult" TypeName="tns:ContentFilterResult" />
</opc:StructuredType>

<opc:StructuredType Name="QueryNextRequest" BaseType="ua:ExtensionObject">
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="ReleaseContinuationPoint" TypeName="opc:Boolean" />
<opc:Field Name="ContinuationPoint" TypeName="opc:ByteString" />
</opc:StructuredType>

<opc:StructuredType Name="QueryNextResponse" BaseType="ua:ExtensionObject">
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="NoOfQueryDataSets" TypeName="opc:Int32" />
<opc:Field Name="QueryDataSets" TypeName="tns:QueryDataSet" LengthField="NoOfQueryDataSets" />
<opc:Field Name="RevisedContinuationPoint" TypeName="opc:ByteString" />
</opc:StructuredType>

<opc:EnumeratedType Name="TimestampsToReturn" LengthInBits="32">
<opc:EnumeratedValue Name="Source" Value="0" />
<opc:EnumeratedValue Name="Server" Value="1" />
<opc:EnumeratedValue Name="Both" Value="2" />
<opc:EnumeratedValue Name="Neither" Value="3" />
<opc:EnumeratedValue Name="Invalid" Value="4" />
</opc:EnumeratedType>

<opc:StructuredType Name="ReadValueId" BaseType="ua:ExtensionObject">
<opc:Field Name="NodeId" TypeName="ua:NodeId" />
<opc:Field Name="AttributeId" TypeName="opc:UInt32" />
<opc:Field Name="IndexRange" TypeName="opc:String" />
<opc:Field Name="DataEncoding" TypeName="ua:QualifiedName" />
</opc:StructuredType>

<opc:StructuredType Name="ReadRequest" BaseType="ua:ExtensionObject">
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="MaxAge" TypeName="opc:Double" />
<opc:Field Name="TimestampsToReturn" TypeName="tns:TimestampsToReturn" />
<opc:Field Name="NoOfNodesToRead" TypeName="opc:Int32" />
<opc:Field Name="NodesToRead" TypeName="tns:ReadValueId" LengthField="NoOfNodesToRead" />
</opc:StructuredType>

<opc:StructuredType Name="ReadResponse" BaseType="ua:ExtensionObject">
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="NoOfResults" TypeName="opc:Int32" />
<opc:Field Name="Results" TypeName="ua:DataValue" LengthField="NoOfResults" />
</opc:StructuredType>
<opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
<opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="HistoryReadValueId" BaseType="ua:ExtensionObject">
  <opc:Field Name="NodeId" TypeName="ua:NodeId" />
  <opc:Field Name="IndexRange" TypeName="opc:String" />
  <opc:Field Name="DataEncoding" TypeName="ua:QualifiedName" />
  <opc:Field Name="ContinuationPoint" TypeName="opc:ByteString" />
</opc:StructuredType>

<opc:StructuredType Name="HistoryReadResult" BaseType="ua:ExtensionObject">
  <opc:Field Name="StatusCode" TypeName="ua:StatusCode" />
  <opc:Field Name="ContinuationPoint" TypeName="opc:ByteString" />
  <opc:Field Name="HistoryData" TypeName="ua:ExtensionObject" />
</opc:StructuredType>

<opc:StructuredType Name="HistoryReadDetails" BaseType="ua:ExtensionObject">
</opc:StructuredType>

<opc:StructuredType Name="ReadEventDetails" BaseType="tns:HistoryReadDetails">
  <opc:Field Name="NumValuesPerNode" TypeName="opc:UInt32" />
  <opc:Field Name="StartTime" TypeName="opc:DateTime" />
  <opc:Field Name="EndTime" TypeName="opc:DateTime" />
  <opc:Field Name="Filter" TypeName="tns:EventFilter" />
</opc:StructuredType>

<opc:StructuredType Name="ReadRawModifiedDetails" BaseType="tns:HistoryReadDetails">
  <opc:Field Name="IsReadModified" TypeName="opc:Boolean" />
  <opc:Field Name="StartTime" TypeName="opc:DateTime" />
  <opc:Field Name="EndTime" TypeName="opc:DateTime" />
  <opc:Field Name="NumValuesPerNode" TypeName="opc:UInt32" />
  <opc:Field Name="ReturnBounds" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="ReadProcessedDetails" BaseType="tns:HistoryReadDetails">
  <opc:Field Name="StartTime" TypeName="opc:DateTime" />
  <opc:Field Name="EndTime" TypeName="opc:DateTime" />
  <opc:Field Name="ProcessingInterval" TypeName="opc:Double" />
  <opc:Field Name="NoOfAggregateType" TypeName="opc:Int32" />
  <opc:Field Name="AggregateType" TypeName="ua:NodeId" LengthField="NoOfAggregateType" />
  <opc:Field Name="AggregateConfiguration" TypeName="tns:AggregateConfiguration" />
</opc:StructuredType>

<opc:StructuredType Name="ReadAtTimeDetails" BaseType="tns:HistoryReadDetails">
  <opc:Field Name="NoOfReqTimes" TypeName="opc:Int32" />
  <opc:Field Name="ReqTimes" TypeName="opc:DateTime" LengthField="NoOfReqTimes" />
  <opc:Field Name="UseSimpleBounds" TypeName="opc:Boolean" />
</opc:StructuredType>
<opc:StructuredType>  

<opc:StructuredType Name="WriteRequest" BaseType="ua:ExtensionObject">  
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />  
<opc:Field Name="NoOfNodesToWrite" TypeName="opc:Int32" />  
<opc:Field Name="NodesToWrite" TypeName="tns:WriteValue" LengthField="NoOfNodesToWrite" />  
</opc:StructuredType>  

<opc:StructuredType Name="WriteResponse" BaseType="ua:ExtensionObject">  
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />  
<opc:Field Name="NoOfResults" TypeName="opc:Int32" />  
<opc:Field Name="Results" TypeName="ua:StatusCode" LengthField="NoOfResults" />  
<opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />  
<opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />  
</opc:StructuredType>  

<opc:StructuredType Name="HistoryUpdateDetails" BaseType="tns:ExtensionObject">  
<opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:HistoryUpdateDetails" />  
<opc:Field Name="PerformInsertReplace" TypeName="tns:PerformUpdateType" />  
<opc:Field Name="NoOfUpdateValues" TypeName="opc:Int32" />  
<opc:Field Name="UpdateValues" TypeName="ua:DataValue" LengthField="NoOfUpdateValues" />  
</opc:StructuredType>  

<opc:StructuredType Name="UpdateStructureDataDetails" BaseType="tns:HistoryUpdateDetails">  
<opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:HistoryUpdateDetails" />  
<opc:Field Name="PerformInsertReplace" TypeName="tns:PerformUpdateType" />  
<opc:Field Name="NoOfUpdateValues" TypeName="opc:Int32" />  
<opc:Field Name="UpdateValues" TypeName="ua:DataValue" LengthField="NoOfUpdateValues" />  
</opc:StructuredType>  

<opc:EnumeratedType Name="HistoryUpdateType" LengthInBits="32">  
<opc:EnumeratedValue Name="Insert" Value="1" />  
<opc:EnumeratedValue Name="Replace" Value="2" />  
<opc:EnumeratedValue Name="Update" Value="3" />  
<opc:EnumeratedValue Name="Delete" Value="4" />  
</opc:EnumeratedType>  

<opc:EnumeratedType Name="PerformUpdateType" LengthInBits="32">  
<opc:EnumeratedValue Name="Insert" Value="1" />  
<opc:EnumeratedValue Name="Replace" Value="2" />  
<opc:EnumeratedValue Name="Update" Value="3" />  
<opc:EnumeratedValue Name="Remove" Value="4" />  
</opc:EnumeratedType>  

<opc:EnumeratedType Name="UpdateDataDetails" BaseType="tns:HistoryUpdateDetails">  
<opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:HistoryUpdateDetails" />  
<opc:Field Name="PerformInsertReplace" TypeName="tns:PerformUpdateType" />  
<opc:Field Name="NoOfUpdateValues" TypeName="opc:Int32" />  
<opc:Field Name="UpdateValues" TypeName="ua:DataValue" LengthField="NoOfUpdateValues" />  
</opc:StructuredType>  

<opc:EnumeratedType Name="UpdateStructureDataDetails" BaseType="tns:HistoryUpdateDetails">  
<opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:HistoryUpdateDetails" />  
<opc:Field Name="PerformInsertReplace" TypeName="tns:PerformUpdateType" />  
<opc:Field Name="NoOfUpdateValues" TypeName="opc:Int32" />  
<opc:Field Name="UpdateValues" TypeName="ua:DataValue" LengthField="NoOfUpdateValues" />  
</opc:StructuredType>
<opc:StructuredType Name="UpdateEventDetails" BaseType="tns:HistoryUpdateDetails">
  <opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:HistoryUpdateDetails" />
  <opc:Field Name="PerformInsertReplace" TypeName="tns:PerformUpdateType" />
  <opc:Field Name="Filter" TypeName="tns:EventFilter" />
  <opc:Field Name="NoOfEventData" TypeName="opc:Int32" />
  <opc:Field Name="EventData" TypeName="tns:HistoryEventFieldList" LengthField="NoOfEventData" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteRawModifiedDetails" BaseType="tns:HistoryUpdateDetails">
  <opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:HistoryUpdateDetails" />
  <opc:Field Name="IsDeleteModified" TypeName="opc:Boolean" />
  <opc:Field Name="StartTime" TypeName="opc:DateTime" />
  <opc:Field Name="EndTime" TypeName="opc:DateTime" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteAtTimeDetails" BaseType="tns:HistoryUpdateDetails">
  <opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:HistoryUpdateDetails" />
  <opc:Field Name="NoOfReqTimes" TypeName="opc:Int32" />
  <opc:Field Name="ReqTimes" TypeName="opc:DateTime" LengthField="NoOfReqTimes" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteEventDetails" BaseType="tns:HistoryUpdateDetails">
  <opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:HistoryUpdateDetails" />
  <opc:Field Name="NoOfEventIds" TypeName="opc:Int32" />
  <opc:Field Name="EventIds" TypeName="opc:ByteString" LengthField="NoOfEventIds" />
</opc:StructuredType>

<opc:StructuredType Name="HistoryUpdateResult" BaseType="ua:ExtensionObject">
  <opc:Field Name="StatusCode" TypeName="ua:StatusCode" />
  <opc:Field Name="NoOfOperationResults" TypeName="opc:Int32" />
  <opc:Field Name="OperationResults" TypeName="ua:StatusCode" LengthField="NoOfOperationResults" />
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="HistoryUpdateRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="NoOfHistoryUpdateDetails" TypeName="opc:Int32" />
  <opc:Field Name="HistoryUpdateDetails" TypeName="ua:ExtensionObject" LengthField="NoOfHistoryUpdateDetails" />
</opc:StructuredType>

<opc:StructuredType Name="HistoryUpdateResponse" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
  <opc:Field Name="Results" TypeName="tns:HistoryUpdateResult" LengthField="NoOfResults" />
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>
<opc:StructuredType>
</opc:StructuredType>

<opc:StructuredType Name="CallMethodRequest" BaseType="ua:ExtensionObject">
    <opc:Field Name="ObjectId" TypeName="ua:NodeId" />
    <opc:Field Name="MethodId" TypeName="ua:NodeId" />
    <opc:Field Name="NoOfInputArguments" TypeName="opc:Int32" />
    <opc:Field Name="InputArguments" TypeName="ua:Variant" LengthField="NoOfInputArguments" />
</opc:StructuredType>

<opc:StructuredType Name="CallMethodResult" BaseType="ua:ExtensionObject">
    <opc:Field Name="StatusCode" TypeName="ua:StatusCode" />
    <opc:Field Name="NoOfInputArgumentResults" TypeName="opc:Int32" />
    <opc:Field Name="InputArgumentResults" TypeName="ua:Variant" LengthField="NoOfInputArgumentResults" />
    <opc:Field Name="NoOfInputArgumentDiagnosticInfos" TypeName="opc:Int32" />
    <opc:Field Name="InputArgumentDiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfInputArgumentDiagnosticInfos" />
    <opc:Field Name="NoOfOutputArguments" TypeName="opc:Int32" />
    <opc:Field Name="OutputArguments" TypeName="ua:Variant" LengthField="NoOfOutputArguments" />
</opc:StructuredType>

<opc:StructuredType Name="CallRequest" BaseType="ua:ExtensionObject">
    <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
    <opc:Field Name="NoOfMethodsToCall" TypeName="opc:Int32" />
    <opc:Field Name="MethodsToCall" TypeName="tns:CallMethodRequest" LengthField="NoOfMethodsToCall" />
</opc:StructuredType>

<opc:StructuredType Name="CallResponse" BaseType="ua:ExtensionObject">
    <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
    <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
    <opc:Field Name="Results" TypeName="tns:CallMethodResult" LengthField="NoOfResults" />
    <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
    <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:EnumeratedType Name="MonitoringMode" LengthInBits="32">
    <opc:EnumeratedValue Name="Disabled" Value="0" />
    <opc:EnumeratedValue Name="Sampling" Value="1" />
    <opc:EnumeratedValue Name="Reporting" Value="2" />
</opc:EnumeratedType>

<opc:EnumeratedType Name="DataChangeTrigger" LengthInBits="32">
    <opc:EnumeratedValue Name="Status" Value="0" />
    <opc:EnumeratedValue Name="StatusValue" Value="1" />
    <opc:EnumeratedValue Name="StatusValueTimestamp" Value="2" />
</opc:EnumeratedType>
<opc:EnumeratedType Name="DeadbandType" LengthInBits="32">
    <opc:EnumeratedValue Name="None" Value="0" />
    <opc:EnumeratedValue Name="Absolute" Value="1" />
    <opc:EnumeratedValue Name="Percent" Value="2" />
</opc:EnumeratedType>

<opc:StructuredType Name="MonitoringFilter" BaseType="ua:ExtensionObject">
</opc:StructuredType>

<opc:StructuredType Name="DataChangeFilter" BaseType="tns:MonitoringFilter">
    <opc:Field Name="Trigger" TypeName="tns:DataChangeTrigger" />
    <opc:Field Name="DeadbandType" TypeName="opc:UInt32" />
    <opc:Field Name="DeadbandValue" TypeName="opc:Double" />
</opc:StructuredType>

<opc:StructuredType Name="EventFilter" BaseType="tns:MonitoringFilter">
    <opc:Field Name="NoOfSelectClauses" TypeName="opc:Int32" />
    <opc:Field Name="SelectClauses" TypeName="tns:SimpleAttributeOperand" LengthField="NoOfSelectClauses" />
    <opc:Field Name="WhereClause" TypeName="tns:ContentFilter" />
</opc:StructuredType>

<opc:StructuredType Name="AggregateConfiguration" BaseType="ua:ExtensionObject">
    <opc:Field Name="UseServerCapabilitiesDefaults" TypeName="opc:Boolean" />
    <opc:Field Name="TreatUncertainAsBad" TypeName="opc:Boolean" />
    <opc:Field Name="PercentDataBad" TypeName="opc:Byte" />
    <opc:Field Name="PercentDataGood" TypeName="opc:Byte" />
    <opc:Field Name="UseSlopedExtrapolation" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="AggregateFilter" BaseType="tns:MonitoringFilter">
    <opc:Field Name="StartTime" TypeName="opc:DateTime" />
    <opc:Field Name="AggregateType" TypeName="ua:NodeId" />
    <opc:Field Name="ProcessingInterval" TypeName="opc:Double" />
    <opc:Field Name="AggregateConfiguration" TypeName="tns:AggregateConfiguration" />
</opc:StructuredType>

<opc:StructuredType Name="MonitoringFilterResult" BaseType="ua:ExtensionObject">
</opc:StructuredType>

<opc:StructuredType Name="EventFilterResult" BaseType="tns:MonitoringFilterResult">
    <opc:Field Name="NoOfSelectClauseResults" TypeName="opc:Int32" />
    <opc:Field Name="SelectClauseResults" TypeName="ua:StatusCode" LengthField="NoOfSelectClauseResults" />
    <opc:Field Name="NoOfSelectClauseDiagnosticInfos" TypeName="opc:Int32" />
    <opc:Field Name="SelectClauseDiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfSelectClauseDiagnosticInfos" />
    <opc:Field Name="WhereClauseResult" TypeName="tns:ContentFilterResult" />
</opc:StructuredType>
<opc:Field Name="MonitoredItemId" TypeName="opc:UInt32" />
<opc:Field Name="RequestedParameters" TypeName="tns:MonitoringParameters" />
</opc:StructuredType>

<opc:StructuredType Name="MonitoredItemModifyResult" BaseType="ua:ExtensionObject">
<opc:Field Name="StatusCode" TypeName="ua:StatusCode" />
<opc:Field Name="RevisedSamplingInterval" TypeName="opc:Double" />
<opc:Field Name="RevisedQueueSize" TypeName="opc:UInt32" />
<opc:Field Name="FilterResult" TypeName="ua:ExtensionObject" />
</opc:StructuredType>

<opc:StructuredType Name="ModifyMonitoredItemsRequest" BaseType="ua:ExtensionObject">
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="SubscriptionId" TypeName="opc:UInt32" />
<opc:Field Name="TimestampsToReturn" TypeName="tns:TimestampsToReturn" />
<opc:Field Name="NoOfItemsToModify" TypeName="opc:Int32" />
<opc:Field Name="ItemsToModify" TypeName="tns:MonitoredItemModifyRequest" LengthField="NoOfItemsToModify" />
</opc:StructuredType>

<opc:StructuredType Name="ModifyMonitoredItemsResponse" BaseType="ua:ExtensionObject">
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="NoOfResults" TypeName="opc:Int32" />
<opc:Field Name="Results" TypeName="tns:MonitoredItemModifyResult" LengthField="NoOfResults" />
<opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
<opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="SetMonitoringModeRequest" BaseType="ua:ExtensionObject">
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="SubscriptionId" TypeName="opc:UInt32" />
<opc:Field Name="MonitoringMode" TypeName="tns:MonitoringMode" />
<opc:Field Name="NoOfMonitoredItemIds" TypeName="opc:Int32" />
<opc:Field Name="MonitoredItemIds" TypeName="opc:UInt32" LengthField="NoOfMonitoredItemIds" />
</opc:StructuredType>

<opc:StructuredType Name="SetMonitoringModeResponse" BaseType="ua:ExtensionObject">
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="NoOfResults" TypeName="opc:Int32" />
<opc:Field Name="Results" TypeName="ua:StatusCode" LengthField="NoOfResults" />
<opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
<opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="SetTriggeringRequest" BaseType="ua:ExtensionObject">
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="SubscriptionId" TypeName="opc:UInt32" />
<opc:Field Name="TriggeringItemId" TypeName="opc:UInt32" />
</opc:StructuredType>
<opc:Field Name="NoOfLinksToAdd" TypeName="opc:Int32" />
<opc:Field Name="LinksToAdd" TypeName="opc:UInt32" LengthField="NoOfLinksToAdd" />
<opc:Field Name="NoOfLinksToRemove" TypeName="opc:Int32" />
<opc:Field Name="LinksToRemove" TypeName="opc:UInt32" LengthField="NoOfLinksToRemove" />
</opc:StructuredType>

<opc:StructuredType Name="SetTriggeringResponse" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfAddResults" TypeName="opc:Int32" />
  <opc:Field Name="AddResults" TypeName="ua:StatusCode" LengthField="NoOfAddResults" />
  <opc:Field Name="NoOfAddDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="AddDiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfAddDiagnosticInfos" />
  <opc:Field Name="NoOfRemoveResults" TypeName="opc:Int32" />
  <opc:Field Name="RemoveResults" TypeName="ua:StatusCode" LengthField="NoOfRemoveResults" />
  <opc:Field Name="NoOfRemoveDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="RemoveDiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfRemoveDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteMonitoredItemsRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="SubscriptionId" TypeName="opc:UInt32" />
  <opc:Field Name="NoOfMonitoredItemIds" TypeName="opc:Int32" />
  <opc:Field Name="MonitoredItemIds" TypeName="opc:UInt32" LengthField="NoOfMonitoredItemIds" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteMonitoredItemsResponse" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
  <opc:Field Name="Results" TypeName="ua:StatusCode" LengthField="NoOfResults" />
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="CreateSubscriptionRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="RequestedPublishingInterval" TypeName="opc:Double" />
  <opc:Field Name="RequestedLifetimeCount" TypeName="opc:UInt32" />
  <opc:Field Name="RequestedMaxKeepAliveCount" TypeName="opc:UInt32" />
  <opc:Field Name="MaxNotificationsPerPublish" TypeName="opc:UInt32" />
  <opc:Field Name="PublishingEnabled" TypeName="opc:Boolean" />
  <opc:Field Name="Priority" TypeName="opc:Byte" />
</opc:StructuredType>

<opc:StructuredType Name="CreateSubscriptionResponse" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="SubscriptionId" TypeName="opc:UInt32" />
</opc:StructuredType>
<opc:Field Name="RevisedPublishingInterval" TypeName="opc:Double" />
<opc:Field Name="RevisedLifetimeCount" TypeName="opc:UInt32" />
<opc:Field Name="RevisedMaxKeepAliveCount" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="ModifySubscriptionRequest" BaseType="ua:ExtensionObject">
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="SubscriptionId" TypeName="opc:UInt32" />
<opc:Field Name="RequestedPublishingInterval" TypeName="opc:Double" />
<opc:Field Name="RequestedLifetimeCount" TypeName="opc:UInt32" />
<opc:Field Name="RequestedMaxKeepAliveCount" TypeName="opc:UInt32" />
<opc:Field Name="MaxNotificationsPerPublish" TypeName="opc:UInt32" />
<opc:Field Name="Priority" TypeName="opc:Byte" />
</opc:StructuredType>

<opc:StructuredType Name="ModifySubscriptionResponse" BaseType="ua:ExtensionObject">
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="RevisedPublishingInterval" TypeName="opc:Double" />
<opc:Field Name="RevisedLifetimeCount" TypeName="opc:UInt32" />
<opc:Field Name="RevisedMaxKeepAliveCount" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="SetPublishingModeRequest" BaseType="ua:ExtensionObject">
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="PublishingEnabled" TypeName="opc:Boolean" />
<opc:Field Name="NoOfSubscriptionIds" TypeName="opc:Int32" />
<opc:Field Name="SubscriptionIds" TypeName="opc:UInt32" LengthField="NoOfSubscriptionIds" />
</opc:StructuredType>

<opc:StructuredType Name="SetPublishingModeResponse" BaseType="ua:ExtensionObject">
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="NoOfResults" TypeName="opc:Int32" />
<opc:Field Name="Results" TypeName="ua:StatusCode" LengthField="NoOfResults" />
<opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
<opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="NotificationMessage" BaseType="ua:ExtensionObject">
<opc:Field Name="SequenceNumber" TypeName="opc:UInt32" />
<opc:Field Name="PublishTime" TypeName="opc:DateTime" />
<opc:Field Name="NoOfNotificationData" TypeName="opc:Int32" />
<opc:Field Name="NotificationData" TypeName="ua:ExtensionObject" LengthField="NoOfNotificationData" />
</opc:StructuredType>

<opc:StructuredType Name="NotificationData" BaseType="ua:ExtensionObject">
<opc:Field Name="DataChangeNotification" BaseType="tns:NotificationData" />
</opc:StructuredType>
<opc:Field Name="NoOfMonitoredItems" TypeName="opc:Int32" />
<opc:Field Name="MonitoredItems" TypeName="tns:MonitoredItemNotification"
LengthField="NoOfMonitoredItems" />
<opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
<opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="MonitoredItemNotification" BaseType="ua:ExtensionObject">
<opc:Field Name="ClientHandle" TypeName="opc:UInt32" />
<opc:Field Name="Value" TypeName="ua:DataValue" />
</opc:StructuredType>

<opc:StructuredType Name="EventNotificationList" BaseType="tns:NotificationData">
<opc:Field Name="NoOfEvents" TypeName="opc:Int32" />
<opc:Field Name="Events" TypeName="tns:EventFieldList" LengthField="NoOfEvents" />
</opc:StructuredType>

<opc:StructuredType Name="EventFieldList" BaseType="ua:ExtensionObject">
<opc:Field Name="ClientHandle" TypeName="opc:UInt32" />
<opc:Field Name="NoOfEventFields" TypeName="opc:Int32" />
<opc:Field Name="EventFields" TypeName="ua:Variant" LengthField="NoOfEventFields" />
</opc:StructuredType>

<opc:StructuredType Name="HistoryEventFieldList" BaseType="ua:ExtensionObject">
<opc:Field Name="NoOfEventFields" TypeName="opc:Int32" />
<opc:Field Name="EventFields" TypeName="ua:Variant" LengthField="NoOfEventFields" />
</opc:StructuredType>

<opc:StructuredType Name="StatusChangeNotification" BaseType="tns:NotificationData">
<opc:Field Name="Status" TypeName="ua:StatusCode" />
<opc:Field Name="DiagnosticInfo" TypeName="ua:DiagnosticInfo" />
</opc:StructuredType>

<opc:StructuredType Name="SubscriptionAcknowledgement" BaseType="ua:ExtensionObject">
<opc:Field Name="SubscriptionId" TypeName="opc:UInt32" />
<opc:Field Name="SequenceNumber" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="PublishRequest" BaseType="ua:ExtensionObject">
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="NoOfSubscriptionAcknowledgements" TypeName="opc:Int32" />
<opc:Field Name="SubscriptionAcknowledgements" TypeName="tns:SubscriptionAcknowledgement"
LengthField="NoOfSubscriptionAcknowledgements" />
</opc:StructuredType>

<opc:StructuredType Name="PublishResponse" BaseType="ua:ExtensionObject">
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="SubscriptionId" TypeName="opc:UInt32" />
</opc:StructuredType>
<opc:StructuredType Name="RepublishRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="SubscriptionId" TypeName="opc:UInt32" />
  <opc:Field Name="RetransmitSequenceNumber" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="RepublishResponse" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NotificationMessage" TypeName="tns:NotificationMessage" />
</opc:StructuredType>

<opc:StructuredType Name="TransferResult" BaseType="ua:ExtensionObject">
  <opc:Field Name="StatusCode" TypeName="ua:StatusCode" />
  <opc:Field Name="NoOfAvailableSequenceNumbers" TypeName="opc:Int32" />
  <opc:Field Name="AvailableSequenceNumbers" TypeName="opc:UInt32" LengthField="NoOfAvailableSequenceNumbers" />
</opc:StructuredType>

<opc:StructuredType Name="TransferSubscriptionsRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="NoOfSubscriptionIds" TypeName="opc:Int32" />
  <opc:Field Name="SubscriptionIds" TypeName="opc:UInt32" LengthField="NoOfSubscriptionIds" />
  <opc:Field Name="SendInitialValues" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="TransferSubscriptionsResponse" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
  <opc:Field Name="Results" TypeName="tns:TransferResult" LengthField="NoOfResults" />
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteSubscriptionsRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="NoOfSubscriptionIds" TypeName="opc:Int32" />
</opc:StructuredType>
<opc:StructuredType Name="DeleteSubscriptionsResponse" BaseType="ua:ExtensionObject">
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="NoOfResults" TypeName="opc:Int32" />
<opc:Field Name="StatusCode" TypeName="ua:StatusCode" LengthField="NoOfResults" />
<opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
<opc:Field Name="DiagnosticInfo" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="BuildInfo" BaseType="ua:ExtensionObject">
<opc:Field Name="ProductUri" TypeName="opc:String" />
<opc:Field Name="ManufacturerName" TypeName="opc:String" />
<opc:Field Name="ProductName" TypeName="opc:String" />
<opc:Field Name="SoftwareVersion" TypeName="opc:String" />
<opc:Field Name="BuildNumber" TypeName="opc:String" />
<opc:Field Name="BuildDate" TypeName="opc:DateTime" />
</opc:StructuredType>

<opc:EnumeratedType Name="RedundancySupport" LengthInBits="32">
<opc:EnumeratedValue Name="None" Value="0" />
<opc:EnumeratedValue Name="Cold" Value="1" />
<opc:EnumeratedValue Name="Warm" Value="2" />
<opc:EnumeratedValue Name="Hot" Value="3" />
<opc:EnumeratedValue Name="Transparent" Value="4" />
<opc:EnumeratedValue Name="HotAndMirrored" Value="5" />
</opc:EnumeratedType>

<opc:EnumeratedType Name="ServerState" LengthInBits="32">
<opc:EnumeratedValue Name="Running" Value="0" />
<opc:EnumeratedValue Name="Failed" Value="1" />
<opc:EnumeratedValue Name="NoConfiguration" Value="2" />
<opc:EnumeratedValue Name="Suspended" Value="3" />
<opc:EnumeratedValue Name="Shutdown" Value="4" />
<opc:EnumeratedValue Name="Test" Value="5" />
<opc:EnumeratedValue Name="CommunicationFault" Value="6" />
<opc:EnumeratedValue Name="Unknown" Value="7" />
</opc:EnumeratedType>

<opc:StructuredType Name="RedundantServerDataType" BaseType="ua:ExtensionObject">
<opc:Field Name="ServerId" TypeName="opc:String" />
<opc:Field Name="ServiceLevel" TypeName="opc:Byte" />
<opc:Field Name="ServerState" TypeName="tns:ServerState" />
</opc:StructuredType>

<opc:StructuredType Name="EndpointUrlListDataType" BaseType="ua:ExtensionObject">
<opc:Field Name="NoOfEndpointUrlList" TypeName="opc:Int32" />
<opc:Field Name="EndpointUrlList" TypeName="opc:String" LengthField="NoOfEndpointUrlList" />
</opc:StructuredType>
<opc:Field Name="SecurityPolicyUri" TypeName="opc:String" />
<opc:Field Name="ClientCertificate" TypeName="opc:ByteString" />
</opc:StructuredType>

<opc:StructuredType Name="ServiceCounterDataType" BaseType="ua:ExtensionObject">
<opc:Field Name="TotalCount" TypeName="opc:UInt32" />
<opc:Field Name="ErrorCount" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="StatusResult" BaseType="ua:ExtensionObject">
<opc:Field Name="StatusCode" TypeName="ua:StatusCode" />
<opc:Field Name="DiagnosticInfo" TypeName="ua:DiagnosticInfo" />
</opc:StructuredType>

<opc:StructuredType Name="SubscriptionDiagnosticsDataType" BaseType="ua:ExtensionObject">
<opc:Field Name="SessionId" TypeName="ua:NodeId" />
<opc:Field Name="SubscriptionId" TypeName="opc:UInt32" />
<opc:Field Name="Priority" TypeName="opc:Byte" />
<opc:Field Name="PublishingInterval" TypeName="opc:Double" />
<opc:Field Name="MaxKeepAliveCount" TypeName="opc:UInt32" />
<opc:Field Name="MaxLifetimeCount" TypeName="opc:UInt32" />
<opc:Field Name="MaxNotificationsPerPublish" TypeName="opc:UInt32" />
<opc:Field Name="PublishingEnabled" TypeName="opc:Boolean" />
<opc:Field Name="ModifyCount" TypeName="opc:UInt32" />
<opc:Field Name="EnableCount" TypeName="opc:UInt32" />
<opc:Field Name="DisableCount" TypeName="opc:UInt32" />
<opc:Field Name="RepublishRequestCount" TypeName="opc:UInt32" />
<opc:Field Name="RepublishMessageRequestCount" TypeName="opc:UInt32" />
<opc:Field Name="RepublishMessageCount" TypeName="opc:UInt32" />
<opc:Field Name="TransferRequestCount" TypeName="opc:UInt32" />
<opc:Field Name="TransferredToAltClientCount" TypeName="opc:UInt32" />
<opc:Field Name="TransferredToSameClientCount" TypeName="opc:UInt32" />
<opc:Field Name="PublishRequestCount" TypeName="opc:UInt32" />
<opc:Field Name="DataChangeNotificationsCount" TypeName="opc:UInt32" />
<opc:Field Name="EventNotificationsCount" TypeName="opc:UInt32" />
<opc:Field Name="NotificationsCount" TypeName="opc:UInt32" />
<opc:Field Name="LatePublishRequestCount" TypeName="opc:UInt32" />
<opc:Field Name="CurrentKeepAliveCount" TypeName="opc:UInt32" />
<opc:Field Name="CurrentLifetimeCount" TypeName="opc:UInt32" />
<opc:Field Name="UnacknowledgedMessageCount" TypeName="opc:UInt32" />
<opc:Field Name="DiscardedMessageCount" TypeName="opc:UInt32" />
<opc:Field Name="MonitoredItemCount" TypeName="opc:UInt32" />
<opc:Field Name="DisabledMonitoredItemCount" TypeName="opc:UInt32" />
<opc:Field Name="MonitoringQueueOverflowCount" TypeName="opc:UInt32" />
</opc:StructuredType>
<opc:EnumeratedType Name="ModelChangeStructureVerbMask" LengthInBits="32">
  <opc:EnumeratedValue Name="NodeAdded" Value="1" />
  <opc:EnumeratedValue Name="NodeDeleted" Value="2" />
  <opc:EnumeratedValue Name="ReferenceAdded" Value="4" />
  <opc:EnumeratedValue Name="ReferenceDeleted" Value="8" />
  <opc:EnumeratedValue Name="DataTypeChanged" Value="16" />
</opc:EnumeratedType>

<opc:StructuredType Name="ModelChangeStructureDataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="Affected" TypeName="ua:NodeId" />
  <opc:Field Name="AffectedType" TypeName="ua:NodeId" />
  <opc:Field Name="Verb" TypeName="opc:Byte" />
</opc:StructuredType>

<opc:StructuredType Name="SemanticChangeStructureDataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="Affected" TypeName="ua:NodeId" />
  <opc:Field Name="AffectedType" TypeName="ua:NodeId" />
</opc:StructuredType>

<opc:StructuredType Name="Range" BaseType="ua:ExtensionObject">
  <opc:Field Name="Low" TypeName="opc:Double" />
  <opc:Field Name="High" TypeName="opc:Double" />
</opc:StructuredType>

<opc:StructuredType Name="EUInformation" BaseType="ua:ExtensionObject">
  <opc:Field Name="NamespaceUri" TypeName="opc:String" />
  <opc:Field Name="UnitId" TypeName="opc:Int32" />
  <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" />
  <opc:Field Name="Description" TypeName="ua:LocalizedText" />
</opc:StructuredType>

<opc:EnumeratedType Name="AxisScaleEnumeration" LengthInBits="32">
  <opc:EnumeratedValue Name="Linear" Value="0" />
  <opc:EnumeratedValue Name="Log" Value="1" />
  <opc:EnumeratedValue Name="Ln" Value="2" />
</opc:EnumeratedType>

<opc:StructuredType Name="ComplexNumberType" BaseType="ua:ExtensionObject">
  <opc:Field Name="Real" TypeName="opc:Float" />
  <opc:Field Name="Imaginary" TypeName="opc:Float" />
</opc:StructuredType>

<opc:StructuredType Name="DoubleComplexNumberType" BaseType="ua:ExtensionObject">
  <opc:Field Name="Real" TypeName="opc:Double" />
  <opc:Field Name="Imaginary" TypeName="opc:Double" />
</opc:StructuredType>

<opc:StructuredType Name="AxisInformation" BaseType="ua:ExtensionObject"
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1.49 open62541 v1.1 dev-280-gff87c287

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```xml
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<opc:StructuredType BaseType="ua:ExtensionObject" Name="ErrorRegisterBits">
<opc:Documentation>Returns the values of the POWERLINK ErrorRegister</opc:Documentation>
<opc:Field TypeName="opc:ByteString" Name="Value"/>
<opc:Field TypeName="opc:ByteString" Name="ValidBits"/>
</opc:StructuredType>

<opc:StructuredType BaseType="ua:ExtensionObject" Name="PowerlinkAttribute">
<opc:Documentation>Represents the POWERLINK entry attributes</opc:Documentation>
<opc:Field TypeName="opc:ByteString" Name="Value"/>
<opc:Field TypeName="opc:ByteString" Name="ValidBits"/>
</opc:StructuredType>

<opc:StructuredType BaseType="ua:ExtensionObject" Name="PowerlinkErrorEntryDataType">
<opc:Documentation>Represents the entries of the POWERLINK Object ERR_History_ADOM (Object 1003h, SubIndex 1..254)</opc:Documentation>
<opc:Field TypeName="opc:UInt16" Name="entryType"/>
<opc:Field TypeName="opc:UInt16" Name="errorCode"/>
<opc:Field TypeName="opc:UInt64" Name="timeStamp"/>
<opc:Field TypeName="opc:UInt64" Name="additionalInformation"/>
</opc:StructuredType>

<opc:StructuredType BaseType="ua:ExtensionObject" Name="PowerlinkIpAddressDataType">
<opc:Documentation>Structure DataType PowerlinkIpAddressDataType to represent POWERLINK Objects of the POWERLINK data type IP_ADDRESS</opc:Documentation>
<opc:Field TypeName="opc:Byte" Name="b1"/>
<opc:Field TypeName="opc:Byte" Name="b2"/>
<opc:Field TypeName="opc:Byte" Name="b3"/>
<opc:Field TypeName="opc:Byte" Name="b4"/>
</opc:StructuredType>

<opc:StructuredType BaseType="ua:ExtensionObject" Name="PowerlinkPDOMappingEntryDataType">
<opc:Documentation>Structure DataType PowerlinkPDOMappingEntryDataType to represent the entries of POWERLINK Objects like PDO_RxCommParam_00h_REC</opc:Documentation>
<opc:Field TypeName="opc:UInt16" Name="length"/>
<opc:Field TypeName="opc:UInt16" Name="offset"/>
<opc:Field TypeName="opc:Byte" Name="reserved"/>
<opc:Field TypeName="opc:Byte" Name="subIndex"/>
<opc:Field TypeName="opc:UInt16" Name="index"/>
</opc:StructuredType>

<opc:EnumeratedType LengthInBits="32" Name="PowerlinkNMTResetCmdEnumeration">
<opc:Documentation>This DataType is an Enumeration that represents the NMT reset commands for POWERLINK</opc:Documentation>
<opc:EnumeratedValue Name="NMTResetNode" Value="40"/>
<opc:EnumeratedValue Name="NMTResetCommunication" Value="41"/>
<opc:EnumeratedValue Name="NMTResetConfiguration" Value="42"/>
<opc:EnumeratedValue Name="NMTSwReset" Value="43"/>
<opc:EnumeratedValue Name="NMTInvalidService" Value="255"/>
</opc:EnumeratedType>

<opc:EnumeratedType LengthInBits="32" Name="PowerlinkNMTStateEnumeration">
<opc:Documentation>This DataType is an enumeration that represents the NMT State</opc:Documentation>
<opc:EnumeratedValue Name="NMT_GS_OFF" Value="0"/>
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xmlns:opc="http://opcfoundation.org/BinarySchema/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:ua="http://opcfoundation.org/UA/
xmlns:tns="http://opcfoundation.org/UA/
DefaultByteOrder="LittleEndian"
TargetNamespace="http://opcfoundation.org/UA/"
>

<opc:Import Namespace="http://opcfoundation.org/BinarySchema/" />

<!-- Transport types begin -->

<opc:EnumeratedType Name="MessageType" LengthInBits="32">
  <opc:Documentation>Message Type and whether the message contains an intermediate chunk</opc:Documentation>
  <opc:EnumeratedValue Name="ACK" Value="0x4B4341" />
  <opc:EnumeratedValue Name="HEL" Value="0x4C4548" />
  <opc:EnumeratedValue Name="MSG" Value="0x47534D" />
  <opc:EnumeratedValue Name="OPN" Value="0x4E504F" />
  <opc:EnumeratedValue Name="CLO" Value="0x4F4C43" />
  <opc:EnumeratedValue Name="ERR" Value="0x525245" />
</opc:EnumeratedType>

<opc:EnumeratedType Name="ChunkType" LengthInBits="32">
  <opc:Documentation>Type of the chunk</opc:Documentation>
  <opc:EnumeratedValue Name="FINAL" Value="0x46000000" />
  <opc:EnumeratedValue Name="INTERMEDIATE" Value="0x43000000" />
  <opc:EnumeratedValue Name="ABORT" Value="0x41000000" />
</opc:EnumeratedType>

<opc:StructuredType Name="TcpMessageHeader">
  <opc:Documentation>TCP Header</opc:Documentation>
  <opc:Field Name="MessageTypeAndChunkType" TypeName="opc:UInt32" />
  <opc:Field Name="MessageSize" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="TcpHelloMessage">
  <opc:Documentation>Hello Message</opc:Documentation>
  <opc:Field Name="ProtocolVersion" TypeName="opc:UInt32" />
  <opc:Field Name="ReceiveBufferSize" TypeName="opc:UInt32" />
  <opc:Field Name="SendBufferSize" TypeName="opc:UInt32" />
  <opc:Field Name="MaxMessageSize" TypeName="opc:UInt32" />
  <opc:Field Name="MaxChunkCount" TypeName="opc:UInt32" />
  <opc:Field Name="EndpointUrl" TypeName="opc:String" />
</opc:StructuredType>
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<opc:TypeDictionary xmlns:opc="http://opcfoundation.org/BinarySchema/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:ua="http://opcfoundation.org/UA/"
xmlns:tns="http://yourorganisation.org/test/"
DefaultByteOrder="LittleEndian"
TargetNamespace="http://yourorganisation.org/test/">


<opc:StructuredType Name="Point" BaseType="ua:ExtensionObject">
<opc:Field Name="x" TypeName="opc:Double" />
<opc:Field Name="y" TypeName="opc:Double" />
</opc:StructuredType>

<opc:StructuredType Name="NestedPoint" BaseType="ua:ExtensionObject">
<opc:Field Name="x" TypeName="opc:Double" />
<opc:Field Name="y" TypeName="opc:Double" />
<opc:Field Name="point1" TypeName="tns:Point" />
</opc:StructuredType>

<opc:StructuredType Name="PointWithArray" BaseType="ua:ExtensionObject">
<opc:Field Name="x" TypeName="opc:Double" />
<opc:Field Name="y" TypeName="opc:Double" />
<opc:Field Name="z" TypeName="opc:Double" />
<opc:Field Name="NoOfArrayDimensions" TypeName="opc:Int32" />
<opc:Field Name="array1" TypeName="opc:Double" LengthField="NoOfArrayDimensions" />
</opc:StructuredType>

<opc:StructuredType Name="PointWithPointArray" BaseType="ua:ExtensionObject">
<opc:Field Name="x" TypeName="opc:Double" />
<opc:Field Name="y" TypeName="opc:Double" />
<opc:Field Name="z" TypeName="opc:Double" />

<opc:Field Name="NoOfArrayDimensions" TypeName="opc:Int32" />
<opc:Field Name="array1" TypeName="tns:Point" LengthField="NoOfArrayDimensions" />
</opc:StructuredType>

</opc:TypeDictionary>

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<opc:TypeDictionary
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xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:ua="http://opcfoundation.org/UA/
xmlns:tns="http://opcfoundation.org/UA/
DefaultByteOrder="LittleEndian"
TargetNamespace="http://opcfoundation.org/UA/
>

<opc:Import Namespace="http://opcfoundation.org/BinarySchema/">
<opc:StructuredType Name="XmlElement">
<opc:Documentation>An XML element encoded as a UTF-8 string.</opc:Documentation>
<opc:Field Name="Length" TypeName="opc:Int32" />
<opc:Field Name="Value" TypeName="opc:Char" LengthField="Length" />
</opc:StructuredType>

<opc:EnumeratedType Name="NodeIdType" LengthInBits="6">
<opc:Documentation>The possible encodings for a NodeId value.</opc:Documentation>
<opc:EnumeratedValue Name="TwoByte" Value="0" />
<opc:EnumeratedValue Name="FourByte" Value="1" />
<opc:EnumeratedValue Name="Numeric" Value="2" />
<opc:EnumeratedValue Name="String" Value="3" />
<opc:EnumeratedValue Name="Guid" Value="4" />
<opc:EnumeratedValue Name="ByteString" Value="5" />
</opc:EnumeratedType>

<opc:StructuredType Name="TwoByteNodeId">
<opc:Field Name="Identifier" TypeName="opc:Byte" />
</opc:StructuredType>

<opc:StructuredType Name="FourByteNodeId">
<opc:Field Name="NamespaceIndex" TypeName="opc:Byte" />
<opc:Field Name="Identifier" TypeName="opc:UInt16" />
</opc:StructuredType>

<opc:StructuredType Name="NumericNodeId">
<opc:Field Name="NamespaceIndex" TypeName="opc:UInt16" />
<opc:Field Name="Identifier" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="StringNodeId">
<opc:Field Name="NamespaceIndex" TypeName="opc:UInt16" />
<opc:Field Name="Identifier" TypeName="opc:CharArray" />
</opc:StructuredType>

<opc:StructuredType Name="GuidNodeId">
<opc:Field Name="NamespaceIndex" TypeName="opc:UInt16" />
<opc:Field Name="Identifier" TypeName="opc:Guid" />
</opc:StructuredType>

<opc:StructuredType Name="ByteStringNodeId">
<opc:Field Name="NamespaceIndex" TypeName="opc:UInt16" />
<opc:Field Name="Identifier" TypeName="opc:ByteString" />
</opc:StructuredType>

<opc:StructuredType Name="NodeId">
<opc:Documentation>An identifier for a node in a UA server address space.</opc:Documentation>
<opc:Field Name="NodeIdType" TypeName="ua:NodeIdType" />
<opc:Field Name="Reserved1" TypeName="opc:Bit" Length="2" />
<opc:Field Name="TwoByte" TypeName="ua:TwoByteNodeId" SwitchField="NodeIdType" SwitchValue="0" />
<opc:Field Name="FourByte" TypeName="ua:FourByteNodeId"SwitchField="NodeIdType"SwitchValue="1"/>
<opc:Field Name="Numeric" TypeName="ua:NumericNodeId"SwitchField="NodeIdType"SwitchValue="2"/>
<opc:Field Name="String" TypeName="ua:StringNodeId"SwitchField="NodeIdType"SwitchValue="3"/>
<opc:Field Name="Guid" TypeName="ua:GuidNodeId"SwitchField="NodeIdType"SwitchValue="4"/>
<opc:Field Name="ByteString" TypeName="ua:ByteStringNodeId"SwitchField="NodeIdType"SwitchValue="5"/>
</opc:StructuredType>

<opc:StructuredType Name="ExpandedNodeId">
<opc:Documentation>An identifier for a node in a UA server address space qualified with a complete namespace string.</opc:Documentation>
<opc:Field Name="NodeIdType" TypeName="ua:NodeIdType"/>
<opc:Field Name="ServerIndexSpecified" TypeName="opc:Bit"/>
<opc:Field Name="NamespaceURISpecified" TypeName="opc:Bit"/>
<opc:Field Name="TwoByte" TypeName="ua:TwoByteNodeId"SwitchField="NodeIdType"SwitchValue="0"/>
<opc:Field Name="FourByte" TypeName="ua:FourByteNodeId"SwitchField="NodeIdType"SwitchValue="1"/>
<opc:Field Name="Numeric" TypeName="ua:NumericNodeId"SwitchField="NodeIdType"SwitchValue="2"/>
<opc:Field Name="String" TypeName="ua:StringNodeId"SwitchField="NodeIdType"SwitchValue="3"/>
<opc:Field Name="Guid" TypeName="ua:GuidNodeId"SwitchField="NodeIdType"SwitchValue="4"/>
<opc:Field Name="ByteString" TypeName="ua:ByteStringNodeId"SwitchField="NodeIdType"SwitchValue="5"/>
<opc:Field Name="NamespaceURI" TypeName="opc:CharArray"SwitchField="NamespaceURISpecified"/>
<opc:Field Name="ServerIndex" TypeName="opc:UInt32"SwitchField="ServerIndexSpecified"/>
</opc:StructuredType>

<opc:OpaqueType Name="StatusCode" LengthInBits="32" ByteOrderSignificant="true">
<opc:Documentation>A 32-bit status code value.</opc:Documentation>
</opc:OpaqueType>

<opc:StructuredType Name="DiagnosticInfo">
<opc:Documentation>A recursive structure containing diagnostic information associated with a status code.</opc:Documentation>
<opc:Field Name="SymbolicIdSpecified" TypeName="opc:Bit"/>
<opc:Field Name="NamespaceURISpecified" TypeName="opc:Bit"/>
<opc:Field Name="LocaleSpecified" TypeName="opc:Bit"/>
<opc:Field Name="LocalizedTextSpecified" TypeName="opc:Bit"/>
<opc:Field Name="AdditionalInfoSpecified" TypeName="opc:Bit"/>
<opc:Field Name="InnerStatusCodeSpecified" TypeName="opc:Bit"/>
<opc:Field Name="InnerDiagnosticInfoSpecified" TypeName="opc:Bit"/>
<opc:Field Name="Reserved1" TypeName="opc:Bit" Length="2"/>
<opc:Field Name="SymbolicId" TypeName="opc:Int32"SwitchField="SymbolicIdSpecified"/>
<opc:Field Name="NamespaceURI" TypeName="opc:Int32"SwitchField="NamespaceURISpecified"/>
<opc:Field Name="Locale" TypeName="opc:Int32"SwitchField="LocaleSpecified"/>
<opc:Field Name="LocalizedText" TypeName="opc:Int32"SwitchField="LocalizedTextSpecified"/>
<opc:Field Name="AdditionalInfo" TypeName="opc:CharArray"SwitchField="AdditionalInfoSpecified"/>
<opc:Field Name="InnerStatusCode" TypeName="ua:StatusCode"SwitchField="InnerStatusCodeSpecified"/>

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<opc:Field Name="InnerDiagnosticInfo" TypeName="ua:DiagnosticInfo"
SwitchField="InnerDiagnosticInfoSpecified" />
</opc:StructuredType>

<opc:StructuredType Name="QualifiedName">
<opc:Documentation>A string qualified with a namespace index.</opc:Documentation>
<opc:Field Name="NamespaceIndex" TypeName="opc:UInt16" />
<opc:Field Name="Name" TypeName="opc:CharArray" />
</opc:StructuredType>

<opc:StructuredType Name="LocalizedText">
<opc:Documentation>A string qualified with a namespace index.</opc:Documentation>
<opc:Field Name="LocaleSpecified" TypeName="opc:Bit" />
<opc:Field Name="TextSpecified" TypeName="opc:Bit" />
<opc:Field Name="Reserved1" TypeName="opc:Bit" Length="6" />
<opc:Field Name="Locale" TypeName="opc:CharArray" SwitchField="LocaleSpecified" />
<opc:Field Name="Text" TypeName="opc:CharArray" SwitchField="TextSpecified" />
</opc:StructuredType>

<opc:StructuredType Name="DataValue">
<opc:Documentation>A value with an associated timestamp, and quality.</opc:Documentation>
<opc:Field Name="ValueSpecified" TypeName="opc:Bit" />
<opc:Field Name="StatusCodeSpecified" TypeName="opc:Bit" />
<opc:Field Name="SourceTimestampSpecified" TypeName="opc:Bit" />
<opc:Field Name="SourcePicosecondsSpecified" TypeName="opc:Bit" />
<opc:Field Name="ServerTimestampSpecified" TypeName="opc:Bit" />
<opc:Field Name="ServerPicosecondsSpecified" TypeName="opc:Bit" />
<opc:Field Name="Reserved1" TypeName="opc:Bit" Length="2" />
<opc:Field Name="Value" TypeName="ua:Variant" SwitchField="ValueSpecified" />
<opc:Field Name="StatusCode" TypeName="ua:StatusCode" SwitchField="StatusCodeSpecified" />
<opc:Field Name="SourceTimestamp" TypeName="opc:DateTime" SwitchField="SourceTimestampSpecified" />
<opc:Field Name="SourcePicoseconds" TypeName="opc:UInt16" SwitchField="SourcePicosecondsSpecified" />
<opc:Field Name="ServerTimestamp" TypeName="opc:DateTime" SwitchField="ServerTimestampSpecified" />
<opc:Field Name="ServerPicoseconds" TypeName="opc:UInt16" SwitchField="ServerPicosecondsSpecified" />
</opc:StructuredType>

<opc:StructuredType Name="ExtensionObject">
<opc:Documentation>A serialized object prefixed with its data type identifier.</opc:Documentation>
<opc:Field Name="TypeIdSpecified" TypeName="opc:Bit" />
<opc:Field Name="BinaryBody" TypeName="opc:Bit" />
<opc:Field Name="XmlBody" TypeName="opc:Bit" />
<opc:Field Name="Reserved1" TypeName="opc:Bit" Length="5" />
<opc:Field Name="TypeId" TypeName="ua:ExpandedNodeId" SwitchField="TypeIdSpecified" />
<opc:Field Name="BodyLength" TypeName="opc:Int32" />
<opc:Field Name="Body" TypeName="opc:Byte" LengthField="BodyLength" />
</opc:StructuredType>

<opc:StructuredType Name="Variant"
A union of several types.

- VariantType
- ArrayDimensionsSpecified
- ArrayLengthSpecified
- ArrayLength
- Boolean
- SByte
- Byte
- Int16
- UInt16
- Int32
- UInt32
- Int64
- UInt64
- Float
- Double
- String
- DateTime
- Guid
- ByteString
- XmlElement
- NodeId
- ExpandedNodeId
- StatusCode
- QualifiedName
- LocalizedText
- ExtensionObject
<opc:Field Name="DataValue" TypeName="ua:DataValue" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="22" />
<opc:Field Name="Variant" TypeName="ua:Variant" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="23" />
<opc:Field Name="DiagnosticInfo" TypeName="ua:DiagnosticInfo" LengthField="ArrayLength" SwitchField="VariantType" SwitchValue="24" />
<opc:Field Name="NoOfArrayDimensions" TypeName="opc:Int32" SwitchField="ArrayDimensionsSpecified" />
<opc:Field Name="ArrayDimensions" TypeName="opc:Int32" LengthField="NoOfArrayDimensions" SwitchField="ArrayDimensionsSpecified" />
</opc:StructuredType>

<opc:EnumeratedType Name="NamingRuleType" LengthInBits="32">
<opc:EnumeratedValue Name="Mandatory" Value="1" />
<opc:EnumeratedValue Name="Optional" Value="2" />
<opc:EnumeratedValue Name="Constraint" Value="3" />
</opc:EnumeratedType>

<opc:OpaqueType Name="ImageBMP">
<opc:Documentation>An image encoded in BMP format.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="ImageGIF">
<opc:Documentation>An image encoded in GIF format.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="ImageJPG">
<opc:Documentation>An image encoded in JPEG format.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="ImagePNG">
<opc:Documentation>An image encoded in PNG format.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="AudioDataType">
<opc:Documentation>An image encoded in PNG format.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="BitFieldMaskDataType">
<opc:Documentation>A mask of 32 bits that can be updated individually by using the top 32 bits as a mask.</opc:Documentation>
</opc:OpaqueType>

<opc:StructuredType Name="KeyValuePair" BaseType="ua:ExtensionObject">
<opc:Field Name="Key" TypeName="ua:QualifiedName" />
<opc:Field Name="Value" TypeName="ua:Variant" />
</opc:StructuredType>
<opc:Field Name="IssuerCrls" TypeName="opc:ByteString" LengthField="NoOfIssuerCrls" />
</opc:StructuredType>

<opc:StructuredType Name="DecimalDataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="Scale" TypeName="opc:Int16" />
  <opc:Field Name="Value" TypeName="opc:ByteString" />
</opc:StructuredType>

<opc:StructuredType Name="DataTypeSchemaHeader" BaseType="ua:ExtensionObject">
  <opc:Field Name="NoOfNamespaces" TypeName="opc:Int32" />
  <opc:Field Name="Namespaces" TypeName="opc:String" LengthField="NoOfNamespaces" />
  <opc:Field Name="NoOfStructureDataTypes" TypeName="opc:Int32" />
  <opc:Field Name="StructureDataTypes" TypeName="tns:StructureDescription" LengthField="NoOfStructureDataTypes" />
  <opc:Field Name="NoOfEnumDataTypes" TypeName="opc:Int32" />
  <opc:Field Name="EnumDataTypes" TypeName="tns:EnumDescription" LengthField="NoOfEnumDataTypes" />
  <opc:Field Name="NoOfSimpleDataTypes" TypeName="opc:Int32" />
  <opc:Field Name="SimpleDataTypes" TypeName="tns:SimpleTypeDescription" LengthField="NoOfSimpleDataTypes" />
</opc:StructuredType>

<opc:StructuredType Name="DataTypeDescription" BaseType="ua:ExtensionObject">
  <opc:Field Name="DataTypeId" TypeName="ua:NodeId" />
  <opc:Field Name="Name" TypeName="ua:QualifiedName" />
</opc:StructuredType>

<opc:StructuredType Name="StructureDescription" BaseType="tns:DataTypeDescription">
  <opc:Field Name="DataTypeId" TypeName="ua:NodeId" SourceType="tns:DataTypeDescription" />
  <opc:Field Name="Name" TypeName="ua:QualifiedName" SourceType="tns:DataTypeDescription" />
  <opc:Field Name="StructureDefinition" TypeName="tns:StructureDefinition" />
</opc:StructuredType>

<opc:StructuredType Name="EnumDescription" BaseType="tns:DataTypeDescription">
  <opc:Field Name="DataTypeId" TypeName="ua:NodeId" SourceType="tns:DataTypeDescription" />
  <opc:Field Name="Name" TypeName="ua:QualifiedName" SourceType="tns:DataTypeDescription" />
  <opc:Field Name="EnumDefinition" TypeName="tns:EnumDefinition" />
  <opc:Field Name="BuiltInType" TypeName="opc:Byte" />
</opc:StructuredType>

<opc:StructuredType Name="SimpleTypeDescription" BaseType="tns:DataTypeDescription">
  <opc:Field Name="DataTypeId" TypeName="ua:NodeId" SourceType="tns:DataTypeDescription" />
  <opc:Field Name="Name" TypeName="ua:QualifiedName" SourceType="tns:DataTypeDescription" />
  <opc:Field Name="BaseDataType" TypeName="ua:NodeId" />
  <opc:Field Name="BuiltInType" TypeName="opc:Byte" />
</opc:StructuredType>

<opc:StructuredType Name="UABinaryFileDataType" BaseType="tns:DataTypeSchemaHeader"/>
<opc:Field Name="NoOfNamespaces" TypeName="opc:Int32" />
<opc:Field Name="Namespaces" TypeName="opc:String" LengthField="NoOfNamespaces" />
<opc:Field Name="NoOfStructureDataTypes" TypeName="opc:Int32" />
<opc:Field Name="StructureDataTypes" TypeName="tns:StructureDescription" LengthField="NoOfStructureDataTypes" />
<opc:Field Name="NoOfEnumDataTypes" TypeName="opc:Int32" />
<opc:Field Name="EnumDataTypes" TypeName="tns:EnumDescription" LengthField="NoOfEnumDataTypes" />
<opc:Field Name="NoOfSimpleDataTypes" TypeName="opc:Int32" />
<opc:Field Name="SimpleDataTypes" TypeName="tns:SimpleTypeDescription" LengthField="NoOfSimpleDataTypes" />
<opc:Field Name="SchemaLocation" TypeName="opc:String" />
<opc:Field Name="NoOfFileHeader" TypeName="opc:Int32" />
<opc:Field Name="FileHeader" TypeName="tns:KeyValuePair" LengthField="NoOfFileHeader" />
<opc:Field Name="Body" TypeName="ua:Variant" />
</opc:StructuredType>

<opc:EnumeratedType Name="PubSubState" LengthInBits="32">
  <opc:EnumeratedValue Name="Disabled" Value="0" />
  <opc:EnumeratedValue Name="Paused" Value="1" />
  <opc:EnumeratedValue Name="Operational" Value="2" />
  <opc:EnumeratedValue Name="Error" Value="3" />
</opc:EnumeratedType>

<opc:StructuredType Name="DataSetMetaDataType" BaseType="tns:DataTypeSchemaHeader">
  <opc:Field Name="NoOfNamespaces" TypeName="opc:Int32" />
  <opc:Field Name="Namespaces" TypeName="opc:String" LengthField="NoOfNamespaces" />
  <opc:Field Name="NoOfStructureDataTypes" TypeName="opc:Int32" />
  <opc:Field Name="StructureDataTypes" TypeName="tns:StructureDescription" LengthField="NoOfStructureDataTypes" />
  <opc:Field Name="NoOfEnumDataTypes" TypeName="opc:Int32" />
  <opc:Field Name="EnumDataTypes" TypeName="tns:EnumDescription" LengthField="NoOfEnumDataTypes" />
  <opc:Field Name="NoOfSimpleDataTypes" TypeName="opc:Int32" />
  <opc:Field Name="SimpleDataTypes" TypeName="tns:SimpleTypeDescription" LengthField="NoOfSimpleDataTypes" />
  <opc:Field Name="Name" TypeName="opc:String" />
  <opc:Field Name="Description" TypeName="ua:LocalizedText" />
  <opc:Field Name="NoOfFields" TypeName="opc:Int32" />
  <opc:Field Name="Fields" TypeName="tns:FieldMetaData" LengthField="NoOfFields" />
  <opc:Field Name="DataSetClassId" TypeName="opc:Guid" />
  <opc:Field Name="ConfigurationVersion" TypeName="tns:ConfigurationVersionDataType" />
</opc:StructuredType>

<opc:StructuredType Name="FieldMetaData" BaseType="ua:ExtensionObject">
  <opc:Field Name="Name" TypeName="opc:String" />
  <opc:Field Name="Description" TypeName="ua:LocalizedText" />
  <opc:Field Name="FieldFlags" TypeName="tns:DataSetFieldFlags" />
</opc:StructuredType>
<opc:StructuredType Name="ConnectionProperties" TypeName="tns:KeyValuePair" LengthField="NoOfConnectionProperties" />
<opc:Field Name="TransportSettings" TypeName="ua:ExtensionObject" />
<opc:Field Name="NoOfWriterGroups" TypeName="opc:Int32" />
<opc:Field Name="WriterGroups" TypeName="tns:WriterGroupDataType" LengthField="NoOfWriterGroups" />
<opc:Field Name="NoOfReaderGroups" TypeName="opc:Int32" />
<opc:Field Name="ReaderGroups" TypeName="tns:ReaderGroupDataType" LengthField="NoOfReaderGroups" />
</opc:StructuredType>

<opc:StructuredType Name="ConnectionTransportDataType" BaseType="ua:ExtensionObject">
</opc:StructuredType>

<opc:StructuredType Name="NetworkAddressDataType" BaseType="ua:ExtensionObject">
<opc:Field Name="NetworkInterface" TypeName="opc:String" />
</opc:StructuredType>

<opc:StructuredType Name="NetworkAddressUrlDataType" BaseType="tns:NetworkAddressDataType">
<opc:Field Name="NetworkInterface" TypeName="opc:String" SourceType="tns:NetworkAddressDataType" />
<opc:Field Name="Url" TypeName="opc:String" />
</opc:StructuredType>

<opc:StructuredType Name="ReaderGroupDataType" BaseType="tns:PubSubGroupDataType">
<opc:Field Name="Name" TypeName="opc:String" SourceType="tns:PubSubGroupDataType" />
<opc:Field Name="Enabled" TypeName="opc:Boolean" SourceType="tns:PubSubGroupDataType" />
<opc:Field Name="SecurityMode" TypeName="tns:MessageSecurityMode" SourceType="tns:PubSubGroupDataType" />
<opc:Field Name="SecurityGroupId" TypeName="opc:String" SourceType="tns:PubSubGroupDataType" />
<opc:Field Name="NoOfSecurityKeyServices" TypeName="opc:Int32" />
<opc:Field Name="SecurityKeyServices" TypeName="tns:EndpointDescription" LengthField="NoOfSecurityKeyServices" />
<opc:Field Name="MaxNetworkMessageSize" TypeName="opc:UInt32" SourceType="tns:PubSubGroupDataType" />
<opc:Field Name="NoOfGroupProperties" TypeName="opc:Int32" />
<opc:Field Name="GroupProperties" TypeName="tns:KeyValuePair" LengthField="NoOfGroupProperties" />
<opc:Field Name="TransportSettings" TypeName="ua:ExtensionObject" />
<opc:Field Name="MessageSettings" TypeName="ua:ExtensionObject" />
<opc:Field Name="NoOfDataSetReaders" TypeName="opc:Int32" />
<opc:Field Name="DataSetReaders" TypeName="tns:DataSetReaderDataType" LengthField="NoOfDataSetReaders" />
</opc:StructuredType>

<opc:StructuredType Name="ReaderGroupTransportDataType" BaseType="ua:ExtensionObject">
</opc:StructuredType>

<opc:StructuredType Name="ReaderGroupMessageDataType" BaseType="ua:ExtensionObject">
</opc:StructuredType>
<opc:StructuredType Name="DataSetReaderDataType" BaseType="ua:ExtensionObject">
    <opc:Field Name="Name" TypeName="opc: String" />
    <opc:Field Name="Enabled" TypeName="opc: Boolean" />
    <opc:Field Name="PublisherId" TypeName="ua: Variant" />
    <opc:Field Name="WriterGroupId" TypeName="opc: UInt16" />
    <opc:Field Name="DataSetWriterId" TypeName="opc: UInt16" />
    <opc:Field Name="DataSetMetaData" TypeName="tns: DataSetMetaDataType" />
    <opc:Field Name="DataSetFieldContentMask" TypeName="tns: DataSetFieldContentMask" />
    <opc:Field Name="MessageReceiveTimeout" TypeName="opc: Double" />
    <opc:Field Name="KeyFrameCount" TypeName="opc: UInt32" />
    <opc:Field Name="HeaderLayoutUri" TypeName="opc: String" />
    <opc:Field Name="SecurityMode" TypeName="tns: MessageSecurityMode" />
    <opc:Field Name="SecurityGroupId" TypeName="opc: String" />
    <opc:Field Name="NoOfSecurityKeyServices" TypeName="opc: Int32" />
    <opc:Field Name="SecurityKeyServices" TypeName="tns: EndpointDescription" LengthField="NoOfSecurityKeyServices" />
    <opc:Field Name="NoOfDataSetReaderProperties" TypeName="opc: Int32" />
    <opc:Field Name="DataSetReaderProperties" TypeName="tns: KeyValuePair" LengthField="NoOfDataSetReaderProperties" />
    <opc:Field Name="TransportSettings" TypeName="ua: ExtensionObject" />
    <opc:Field Name="MessageSettings" TypeName="ua: ExtensionObject" />
    <opc:Field Name="SubscribedDataSet" TypeName="ua: ExtensionObject" />
</opc:StructuredType>

<opc:StructuredType Name="DataSetReaderTransportDataType" BaseType="ua: ExtensionObject">
</opc:StructuredType>

<opc:StructuredType Name="DataSetReaderMessageDataType" BaseType="ua: ExtensionObject">
</opc:StructuredType>

<opc:StructuredType Name="SubscribedDataSetDataType" BaseType="ua: ExtensionObject">
</opc:StructuredType>

<opc:StructuredType Name="TargetVariablesDataType" BaseType="tns: SubscribedDataSetDataType">
    <opc:Field Name="NoOfTargetVariables" TypeName="opc: Int32" />
    <opc:Field Name="TargetVariables" TypeName="tns: FieldTargetDataType" LengthField="NoOfTargetVariables" />
</opc:StructuredType>

<opc:StructuredType Name="FieldTargetDataType" BaseType="ua: ExtensionObject">
    <opc:Field Name="DataSetFieldId" TypeName="opc: Guid" />
    <opc:Field Name="ReceiverIndexRange" TypeName="opc: String" />
    <opc:Field Name="TargetNodeId" TypeName="ua: NodeId" />
    <opc:Field Name="AttributeId" TypeName="opc: UInt32" />
    <opc:Field Name="WriteIndexRange" TypeName="opc: String" />
    <opc:Field Name="OverrideValueHandling" TypeName="tns: OverrideValueHandling" />
    <opc:Field Name="OverrideValue" TypeName="ua: Variant" />
</opc:StructuredType>
<opc:EnumeratedType Name="OverrideValueHandling" LengthInBits="32">
    <opc:EnumeratedValue Name="Disabled" Value="0" />  
    <opc:EnumeratedValue Name="LastUsableValue" Value="1" />  
    <opc:EnumeratedValue Name="OverrideValue" Value="2" />  
</opc:EnumeratedType>

<opc:StructuredType Name="SubscribedDataSetMirrorDataType" BaseType="tns:SubscribedDataSetDataType">
    <opc:Field Name="ParentNodeName" TypeName="opc:String" />
    <opc:Field Name="NoOfRolePermissions" TypeName="opc:Int32" />
    <opc:Field Name="RolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfRolePermissions" />
</opc:StructuredType>

<opc:StructuredType Name="PubSubConfigurationDataType" BaseType="ua:ExtensionObject">
    <opc:Field Name="NoOfPublishedDataSets" TypeName="opc:Int32" />  
    <opc:Field Name="PublishedDataSets" TypeName="tns:PublishedDataSetDataType" LengthField="NoOfPublishedDataSets" />
    <opc:Field Name="NoOfConnections" TypeName="opc:Int32" />
    <opc:Field Name="Connections" TypeName="tns:PubSubConnectionDataType" LengthField="NoOfConnections" />
    <opc:Field Name="Enabled" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:EnumeratedType Name="DataSetOrderingType" LengthInBits="32">
    <opc:EnumeratedValue Name="Undefined" Value="0" />  
    <opc:EnumeratedValue Name="AscendingWriterId" Value="1" />  
    <opc:EnumeratedValue Name="AscendingWriterIdSingle" Value="2" />  
</opc:EnumeratedType>

<opc:EnumeratedType Name="UadpNetworkMessageContentMask" LengthInBits="32" IsOptionSet="true">
    <opc:EnumeratedValue Name="None" Value="0" />  
    <opc:EnumeratedValue Name="PublisherId" Value="1" />  
    <opc:EnumeratedValue Name="GroupHeader" Value="2" />  
    <opc:EnumeratedValue Name="WriterGroupId" Value="4" />  
    <opc:EnumeratedValue Name="GroupVersion" Value="8" />  
    <opc:EnumeratedValue Name="NetworkMessageNumber" Value="16" />  
    <opc:EnumeratedValue Name="SequenceNumber" Value="32" />  
    <opc:EnumeratedValue Name="PayloadHeader" Value="64" />  
    <opc:EnumeratedValue Name="Timestamp" Value="128" />  
    <opc:EnumeratedValue Name="PicoSeconds" Value="256" />  
    <opc:EnumeratedValue Name="DataSetClassId" Value="512" />  
    <opc:EnumeratedValue Name="PromotedFields" Value="1024" />  
</opc:EnumeratedType>

<opc:StructuredType Name="UadpWriterGroupMessageDataType" BaseType="tns:WriterGroupMessageDataType">
    <opc:Field Name="GroupVersion" TypeName="opc:UInt32" />
</opc:StructuredType>
<opc:Field Name="DataSetOrdering" TypeName="tns:DataSetOrderingType" />
<opc:Field Name="NetworkMessageContentMask" TypeName="tns:UadpNetworkMessageContentMask" />
<opc:Field Name="SamplingOffset" TypeName="opc:Double" />
<opc:Field Name="NoOfPublishingOffset" TypeName="opc:Int32" />
<opc:Field Name="PublishingOffset" TypeName="opc:Double" LengthField="NoOfPublishingOffset" />
</opc:StructuredType>

<opc:EnumeratedType Name="UadpDataSetMessageContentMask" LengthInBits="32" IsOptionSet="true">
    <opc:EnumeratedValue Name="None" Value="0" />
    <opc:EnumeratedValue Name="Timestamp" Value="1" />
    <opc:EnumeratedValue Name="PicoSeconds" Value="2" />
    <opc:EnumeratedValue Name="Status" Value="4" />
    <opc:EnumeratedValue Name="MajorVersion" Value="8" />
    <opc:EnumeratedValue Name="MinorVersion" Value="16" />
    <opc:EnumeratedValue Name="SequenceNumber" Value="32" />
</opc:EnumeratedType>

<opc:StructuredType Name="UadpDataSetWriterMessageDataType" BaseType="tns:DataSetWriterMessageDataType">
    <opc:Field Name="DataSetMessageContentMask" TypeName="tns:UadpDataSetMessageContentMask" />
    <opc:Field Name="ConfiguredSize" TypeName="opc:UInt16" />
    <opc:Field Name="NetworkMessageNumber" TypeName="opc:UInt16" />
    <opc:Field Name="DataSetOffset" TypeName="opc:UInt16" />
</opc:StructuredType>

<opc:StructuredType Name="UadpDataSetReaderMessageDataType" BaseType="tns:DataSetReaderMessageDataType">
    <opc:Field Name="GroupVersion" TypeName="opc:UInt32" />
    <opc:Field Name="NetworkMessageNumber" TypeName="opc:UInt16" />
    <opc:Field Name="DataSetOffset" TypeName="opc:UInt16" />
    <opc:Field Name="DataSetClassId" TypeName="opc:Guid" />
    <opc:Field Name="NetworkMessageContentMask" TypeName="tns:UadpNetworkMessageContentMask" />
    <opc:Field Name="DataSetMessageContentMask" TypeName="tns:UadpDataSetMessageContentMask" />
    <opc:Field Name="PublishingInterval" TypeName="opc:Double" />
    <opc:Field Name="ReceiveOffset" TypeName="opc:Double" />
    <opc:Field Name="ProcessingOffset" TypeName="opc:Double" />
</opc:StructuredType>

<opc:EnumeratedType Name="JsonNetworkMessageContentMask" LengthInBits="32" IsOptionSet="true">
    <opc:EnumeratedValue Name="None" Value="0" />
    <opc:EnumeratedValue Name="NetworkMessageHeader" Value="1" />
    <opc:EnumeratedValue Name="DataSetMessageHeader" Value="2" />
    <opc:EnumeratedValue Name="SingleDataSetMessage" Value="4" />
    <opc:EnumeratedValue Name="PublisherId" Value="8" />
    <opc:EnumeratedValue Name="DataSetClassId" Value="16" />
    <opc:EnumeratedValue Name="ReplyTo" Value="32" />
</opc:EnumeratedType>
<opc:StructuredType Name="JsonWriterGroupMessageDataType" BaseType="tns:WriterGroupMessageDataType">
    <opc:Field Name="NetworkMessageContentMask" TypeName="tns:JsonNetworkMessageContentMask" />
</opc:StructuredType>

<opc:EnumeratedType Name="JsonDataSetMessageContentMask" LengthInBits="32" IsOptionSet="true">
    <opc:EnumeratedValue Name="None" Value="0" />
    <opc:EnumeratedValue Name="DataSetWriterId" Value="1" />
    <opc:EnumeratedValue Name="MetaDataVersion" Value="2" />
    <opc:EnumeratedValue Name="SequenceNumber" Value="4" />
    <opc:EnumeratedValue Name="Timestamp" Value="8" />
    <opc:EnumeratedValue Name="Status" Value="16" />
</opc:EnumeratedType>

<opc:StructuredType Name="JsonDataSetWriterMessageDataType" BaseType="tns:DataSetWriterMessageDataType">
    <opc:Field Name="DataSetMessageContentMask" TypeName="tns:JsonDataSetMessageContentMask" />
</opc:StructuredType>

<opc:StructuredType Name="JsonDataSetReaderMessageDataType" BaseType="tns:DataSetReaderMessageDataType">
    <opc:Field Name="NetworkMessageContentMask" TypeName="tns:JsonNetworkMessageContentMask" />
    <opc:Field Name="DataSetMessageContentMask" TypeName="tns:JsonDataSetMessageContentMask" />
</opc:StructuredType>

<opc:StructuredType Name="DatagramConnectionTransportDataType" BaseType="tns:ConnectionTransportDataType">
    <opc:Field Name="DiscoveryAddress" TypeName="ua:ExtensionObject" />
</opc:StructuredType>

<opc:StructuredType Name="DatagramWriterGroupTransportDataType" BaseType="tns:WriterGroupTransportDataType">
    <opc:Field Name="MessageRepeatCount" TypeName="opc:Byte" />
    <opc:Field Name="MessageRepeatDelay" TypeName="opc:Double" />
</opc:StructuredType>

<opc:StructuredType Name="BrokerConnectionTransportDataType" BaseType="tns:ConnectionTransportDataType">
    <opc:Field Name="ResourceUri" TypeName="opc:String" />
    <opc:Field Name="AuthenticationProfileUri" TypeName="opc:String" />
</opc:StructuredType>

<opc:EnumeratedType Name="BrokerTransportQualityOfService" LengthInBits="32">
    <opc:EnumeratedValue Name="NotSpecified" Value="0" />
    <opc:EnumeratedValue Name="BestEffort" Value="1" />
    <opc:EnumeratedValue Name="AtLeastOnce" Value="2" />
    <opc:EnumeratedValue Name="AtMostOnce" Value="3" />
    <opc:EnumeratedValue Name="ExactlyOnce" Value="4" />
</opc:EnumeratedType>
<opc:EnumeratedType>

<opc:StructuredType Name="BrokerWriterGroupTransportDataType"
BaseType="tns:WriterGroupTransportDataType">
  <opc:Field Name="QueueName" TypeName="opc:String" />
  <opc:Field Name="ResourceUri" TypeName="opc:String" />
  <opc:Field Name="AuthenticationProfileUri" TypeName="opc:String" />
  <opc:Field Name="RequestedDeliveryGuarantee" TypeName="tns:BrokerTransportQualityOfService" />
</opc:StructuredType>

<opc:StructuredType Name="BrokerDataSetWriterTransportDataType"
BaseType="tns:DataSetWriterTransportDataType">
  <opc:Field Name="QueueName" TypeName="opc:String" />
  <opc:Field Name="ResourceUri" TypeName="opc:String" />
  <opc:Field Name="AuthenticationProfileUri" TypeName="opc:String" />
  <opc:Field Name="RequestedDeliveryGuarantee" TypeName="tns:BrokerTransportQualityOfService" />
  <opc:Field Name="MetaDataQueueName" TypeName="opc:String" />
  <opc:Field Name="MetaDataUpdateTime" TypeName="opc:Double" />
</opc:StructuredType>

<opc:StructuredType Name="BrokerDataSetReaderTransportDataType"
BaseType="tns:DataSetReaderTransportDataType">
  <opc:Field Name="QueueName" TypeName="opc:String" />
  <opc:Field Name="ResourceUri" TypeName="opc:String" />
  <opc:Field Name="AuthenticationProfileUri" TypeName="opc:String" />
  <opc:Field Name="RequestedDeliveryGuarantee" TypeName="tns:BrokerTransportQualityOfService" />
  <opc:Field Name="MetaDataQueueName" TypeName="opc:String" />
</opc:StructuredType>

<opc:EnumeratedType Name="DiagnosticsLevel" LengthInBits="32">
  <opc:EnumeratedValue Name="Basic" Value="0" />
  <opc:EnumeratedValue Name="Advanced" Value="1" />
  <opc:EnumeratedValue Name="Info" Value="2" />
  <opc:EnumeratedValue Name="Log" Value="3" />
  <opc:EnumeratedValue Name="Debug" Value="4" />
</opc:EnumeratedType>

<opc:EnumeratedType Name="PubSubDiagnosticsCounterClassification" LengthInBits="32">
  <opc:EnumeratedValue Name="Information" Value="0" />
  <opc:EnumeratedValue Name="Error" Value="1" />
</opc:EnumeratedType>

<opc:EnumeratedType Name="IdType" LengthInBits="32">
  <opc:Documentation>The type of identifier used in a node id.</opc:Documentation>
  <opc:EnumeratedValue Name="Numeric" Value="0" />
  <opc:EnumeratedValue Name="String" Value="1" />
  <opc:EnumeratedValue Name="Guid" Value="2" />
  <opc:EnumeratedValue Name="Opaque" Value="3" />
</opc:EnumeratedType>
<opc:EnumeratedValue Name="None" Value="0" />
<opc:EnumeratedValue Name="CurrentRead" Value="1" />
<opc:EnumeratedValue Name="CurrentWrite" Value="2" />
<opc:EnumeratedValue Name="HistoryRead" Value="4" />
<opc:EnumeratedValue Name="HistoryWrite" Value="8" />
<opc:EnumeratedValue Name="SemanticChange" Value="16" />
<opc:EnumeratedValue Name="StatusWrite" Value="32" />
<opc:EnumeratedValue Name="TimestampWrite" Value="64" />
<opc:EnumeratedValue Name="NonatomicRead" Value="256" />
<opc:EnumeratedValue Name="NonatomicWrite" Value="512" />
<opc:EnumeratedValue Name="WriteFullArrayOnly" Value="1024" />
</opc:EnumeratedType>

<opc:EnumeratedType Name="EventNotifierType" LengthInBits="8" IsOptionSet="true">
<opc:EnumeratedValue Name="None" Value="0" />
<opc:EnumeratedValue Name="SubscribeToEvents" Value="1" />
<opc:EnumeratedValue Name="HistoryRead" Value="4" />
</opc:EnumeratedType>

<opc:StructuredType Name="RolePermissionType" BaseType="ua:ExtensionObject">
<opc:Field Name="RoleId" TypeName="ua:NodeId" />
<opc:Field Name="Permissions" TypeName="tns:PermissionType" />
</opc:StructuredType>

<opc:EnumeratedType Name="AccessRestrictionType" LengthInBits="32">
<opc:EnumeratedValue Name="SigningRequired" Value="0" />
<opc:EnumeratedValue Name="EncryptionRequired" Value="1" />
<opc:EnumeratedValue Name="SessionRequired" Value="2" />
</opc:EnumeratedType>

<opc:EnumeratedType Name="StructureType" LengthInBits="32">
<opc:EnumeratedValue Name="Structure" Value="0" />
<opc:EnumeratedValue Name="StructureWithOptionalFields" Value="1" />
<opc:EnumeratedValue Name="Union" Value="2" />
</opc:EnumeratedType>

<opc:StructuredType Name="StructureField" BaseType="ua:ExtensionObject">
<opc:Field Name="Name" TypeName="opc:String" />
<opc:Field Name="Description" TypeName="ua:LocalizedText" />
<opc:Field Name="DataType" TypeName="ua:NodeId" />
<opc:Field Name="ValueRank" TypeName="opc:Int32" />
<opc:Field Name="NoOfArrayDimensions" TypeName="opc:Int32" />
<opc:Field Name="ArrayDimensions" TypeName="opc:UInt32" LengthField="NoOfArrayDimensions" />
<opc:Field Name="MaxStringLength" TypeName="opc:UInt32" />
<opc:Field Name="IsOptional" TypeName="opc:Boolean" />
</opc:StructuredType>
<opc:StructuredType Name="StructureDefinition" BaseType="tns:DataTypeDefinition">
    <opc:Field Name="DefaultEncodingId" TypeName="ua:NodeId" />
    <opc:Field Name="BaseDataType" TypeName="ua:NodeId" />
    <opc:Field Name="StructureType" TypeName="tns:StructureType" />
    <opc:Field Name="NoOfFields" TypeName="opc:Int32" />
    <opc:Field Name="Fields" TypeName="tns:StructureField" LengthField="NoOfFields" />
</opc:StructuredType>

<opc:StructuredType Name="EnumDefinition" BaseType="tns:DataTypeDefinition">
    <opc:Field Name="NoOfFields" TypeName="opc:Int32" />
    <opc:Field Name="Fields" TypeName="tns:EnumField" LengthField="NoOfFields" />
</opc:StructuredType>

<opc:StructuredType Name="Node" BaseType="ua:ExtensionObject">
    <opc:Documentation>Specifies the attributes which belong to all nodes.</opc:Documentation>
    <opc:Field Name="NodeId" TypeName="ua:NodeId" />
    <opc:Field Name="NodeClass" TypeName="tns:NodeClass" />
    <opc:Field Name="BrowseName" TypeName="ua:QualifiedName" />
    <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" />
    <opc:Field Name="Description" TypeName="ua:LocalizedText" />
    <opc:Field Name="WriteMask" TypeName="opc:UInt32" />
    <opc:Field Name="UserWriteMask" TypeName="opc:UInt32" />
    <opc:Field Name="NoOfRolePermissions" />
    <opc:Field Name="RolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfRolePermissions" />
    <opc:Field Name="NoOfUserRolePermissions" />
    <opc:Field Name="UserRolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfUserRolePermissions" />
    <opc:Field Name="AccessRestrictions" TypeName="opc:UInt16" />
    <opc:Field Name="NoOfReferences" />
    <opc:Field Name="References" TypeName="tns:ReferenceNode" LengthField="NoOfReferences" />
</opc:StructuredType>

<opc:StructuredType Name="InstanceNode" BaseType="tns:Node">
    <opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:Node" />
    <opc:Field Name="NodeClass" TypeName="tns:NodeClass" SourceType="tns:Node" />
    <opc:Field Name="BrowseName" TypeName="ua:QualifiedName" SourceType="tns:Node" />
    <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:Node" />
    <opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:Node" />
    <opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
    <opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
    <opc:Field Name="NoOfRolePermissions" />
    <opc:Field Name="RolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfRolePermissions" />
    <opc:Field Name="NoOfUserRolePermissions" />
    <opc:Field Name="UserRolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfUserRolePermissions" />
    <opc:Field Name="AccessRestrictions" TypeName="opc:UInt16" SourceType="tns:Node" />
    <opc:Field Name="NoOfReferences" SourceType="tns:Node" />
</opc:StructuredType>
<opc:Field Name="BrowseName" TypeName="ua:QualifiedName" SourceType="tns:Node" />
<opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:Node" />
<opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:Node" />
<opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
<opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
<opc:Field Name="NoOfRolePermissions" TypeName="opc:Int32" />
<opc:Field Name="RolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfRolePermissions" />
<opc:Field Name="NoOfUserRolePermissions" TypeName="opc:Int32" />
<opc:Field Name="UserRolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfUserRolePermissions" />
<opc:Field Name="AccessRestrictions" TypeName="opc:UInt16" SourceType="tns:Node" />
<opc:Field Name="NoOfReferences" TypeName="opc:Int32" />
<opc:Field Name="References" TypeName="tns:ReferenceNode" LengthField="NoOfReferences" />
<opc:Field Name="IsAbstract" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="VariableNode" BaseType="tns:InstanceNode">
<opc:Documentation>Specifies the attributes which belong to variable nodes.</opc:Documentation>
<opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:Node" />
<opc:Field Name="NodeClass" TypeName="tns:NodeClass" SourceType="tns:Node" />
<opc:Field Name="BrowseName" TypeName="ua:QualifiedName" SourceType="tns:Node" />
<opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:Node" />
<opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:Node" />
<opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
<opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
<opc:Field Name="NoOfRolePermissions" TypeName="opc:Int32" />
<opc:Field Name="RolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfRolePermissions" />
<opc:Field Name="NoOfUserRolePermissions" TypeName="opc:Int32" />
<opc:Field Name="UserRolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfUserRolePermissions" />
<opc:Field Name="AccessRestrictions" TypeName="opc:UInt16" SourceType="tns:Node" />
<opc:Field Name="NoOfReferences" TypeName="opc:Int32" />
<opc:Field Name="References" TypeName="tns:ReferenceNode" LengthField="NoOfReferences" />
<opc:Field Name="Value" TypeName="ua:Variant" />
<opc:Field Name="DataType" TypeName="ua:NodeId" />
<opc:Field Name="ValueRank" TypeName="opc:Int32" />
<opc:Field Name="NoOfArrayDimensions" TypeName="opc:Int32" />
<opc:Field Name="ArrayDimensions" TypeName="opc:UInt32" LengthField="NoOfArrayDimensions" />
<opc:Field Name="AccessLevel" TypeName="opc:Byte" />
<opc:Field Name="UserAccessLevel" TypeName="opc:Byte" />
<opc:Field Name="MinimumSamplingInterval" TypeName="opc:Double" />
<opc:Field Name="Historizing" TypeName="opc:Boolean" />
<opc:Field Name="AccessLevelEx" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="VariableTypeNode" BaseType="tns:TypeNode"/>
<opc:Documentation>Specifies the attributes which belong to variable type nodes.</opc:Documentation>
<opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:Node" />
<opc:Field Name="NodeClass" TypeName="tns:NodeClass" SourceType="tns:Node" />
<opc:Field Name="BrowseName" TypeName="ua:QualifiedName" SourceType="tns:Node" />
<opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:Node" />
<opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:Node" />
<opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
<opc:Field Name="UserRolePermissions" TypeName="opc:Int32" />
<opc:Field Name="NoOfRolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfRolePermissions" />
<opc:Field Name="NoOfUserRolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfUserRolePermissions" />
<opc:Field Name="AccessRestrictions" TypeName="opc:UInt16" SourceType="tns:Node" />
<opc:Field Name="References" TypeName="tns:ReferenceNode" LengthField="NoOfReferences" />
<opc:Field Name="Value" TypeName="ua:Variant" />
<opc:Field Name="DataType" TypeName="ua:NodeId" />
<opc:Field Name="ValueRank" TypeName="opc:Int32" />
<opc:Field Name="NoOfArrayDimensions" TypeName="opc:Int32" />
<opc:Field Name="IsAbstract" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="ReferenceTypeNode" BaseType="tns:TypeNode">
<opc:Documentation>Specifies the attributes which belong to reference type nodes.</opc:Documentation>
<opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:Node" />
<opc:Field Name="NodeClass" TypeName="tns:NodeClass" SourceType="tns:Node" />
<opc:Field Name="BrowseName" TypeName="ua:QualifiedName" SourceType="tns:Node" />
<opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:Node" />
<opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:Node" />
<opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
<opc:Field Name="UserRolePermissions" TypeName="opc:Int32" />
<opc:Field Name="NoOfRolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfRolePermissions" />
<opc:Field Name="NoOfUserRolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfUserRolePermissions" />
<opc:Field Name="AccessRestrictions" TypeName="opc:UInt16" SourceType="tns:Node" />
<opc:Field Name="References" TypeName="tns:ReferenceNode" LengthField="NoOfReferences" />
<opc:Field Name="Value" TypeName="ua:Variant" />
<opc:Field Name="IsAbstract" TypeName="opc:Boolean" />
<opc:Field Name="Symmetric" TypeName="opc:Boolean" />
<opc:Field Name="InverseName" TypeName="ua:LocalizedText" />
</opc:StructuredType>
<opc:StructuredType Name="MethodNode" BaseType="tns:InstanceNode">
  <opc:Documentation>Specifies the attributes which belong to method nodes.</opc:Documentation>
  <opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:Node" />
  <opc:Field Name="NodeClass" TypeName="tns:NodeClass" SourceType="tns:Node" />
  <opc:Field Name="BrowseName" TypeName="ua:QualifiedName" SourceType="tns:Node" />
  <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:Node" />
  <opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:Node" />
  <opc:Field Name="WriteMask" TypeName="opc: UInt32" SourceType="tns:Node" />
  <opc:Field Name="UserWriteMask" TypeName="opc: UInt32" SourceType="tns:Node" />
  <opc:Field Name="NoOfRolePermissions" TypeName="opc: Int32" />
  <opc:Field Name="RolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfRolePermissions" />
  <opc:Field Name="NoOfUserRolePermissions" TypeName="opc: Int32" />
  <opc:Field Name="UserRolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfUserRolePermissions" />
  <opc:Field Name="AccessRestrictions" TypeName="opc: UInt16" SourceType="tns:Node" />
  <opc:Field Name="NoOfReferences" TypeName="opc: Int32" />
  <opc:Field Name="References" TypeName="tns:ReferenceNode" LengthField="NoOfReferences" />
  <opc:Field Name="Executable" TypeName="opc: Boolean" />
  <opc:Field Name="UserExecutable" TypeName="opc: Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="ViewNode" BaseType="tns:InstanceNode">
  <opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:Node" />
  <opc:Field Name="NodeClass" TypeName="tns:NodeClass" SourceType="tns:Node" />
  <opc:Field Name="BrowseName" TypeName="ua:QualifiedName" SourceType="tns:Node" />
  <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:Node" />
  <opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:Node" />
  <opc:Field Name="WriteMask" TypeName="opc: UInt32" SourceType="tns:Node" />
  <opc:Field Name="UserWriteMask" TypeName="opc: UInt32" SourceType="tns:Node" />
  <opc:Field Name="NoOfRolePermissions" TypeName="opc: Int32" />
  <opc:Field Name="RolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfRolePermissions" />
  <opc:Field Name="NoOfUserRolePermissions" TypeName="opc: Int32" />
  <opc:Field Name="UserRolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfUserRolePermissions" />
  <opc:Field Name="AccessRestrictions" TypeName="opc: UInt16" SourceType="tns:Node" />
  <opc:Field Name="NoOfReferences" TypeName="opc: Int32" />
  <opc:Field Name="References" TypeName="tns:ReferenceNode" LengthField="NoOfReferences" />
  <opc:Field Name="ContainsNoLoops" TypeName="opc: Boolean" />
  <opc:Field Name="EventNotifier" TypeName="opc: Byte" />
</opc:StructuredType>

<opc:StructuredType Name="DataTypeNode" BaseType="tns:TypeNode">
  <opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:Node" />
  <opc:Field Name="NodeClass" TypeName="tns:NodeClass" SourceType="tns:Node" />
  <opc:Field Name="BrowseName" TypeName="ua:QualifiedName" SourceType="tns:Node" />
  <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:Node" />
</opc:StructuredType>
<opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:Node" />
<opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
<opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:Node" />
<opc:Field Name="NoOfRolePermissions" TypeName="opc:Int32" />
<opc:Field Name="RolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfRolePermissions" />
<opc:Field Name="NoOfUserRolePermissions" TypeName="opc:Int32" />
<opc:Field Name="UserRolePermissions" TypeName="tns:RolePermissionType" LengthField="NoOfUserRolePermissions" />
<opc:Field Name="AccessRestrictions" TypeName="opc:UInt16" SourceType="tns:Node" />
<opc:Field Name="NoOfReferences" TypeName="opc:Int32" />
<opc:Field Name="References" TypeName="tns:ReferenceNode" LengthField="NoOfReferences" />
<opc:Field Name="IsAbstract" TypeName="opc:Boolean" />
<opc:Field Name="DataTypeDefinition" TypeName="ua:ExtensionObject" />
</opc:StructuredType>

<opc:StructuredType Name="ReferenceNode" BaseType="ua:ExtensionObject">
  <opc:Documentation>Specifies a reference which belongs to a node.</opc:Documentation>
  <opc:Field Name="ReferenceTypeId" TypeName="ua:NodeId" />
  <opc:Field Name="IsInverse" TypeName="opc:Boolean" />
  <opc:Field Name="TargetId" TypeName="ua:ExpandedNodeId" />
</opc:StructuredType>

<opc:StructuredType Name="Argument" BaseType="ua:ExtensionObject">
  <opc:Documentation>An argument for a method.</opc:Documentation>
  <opc:Field Name="Name" TypeName="opc:String" />
  <opc:Field Name="DataType" TypeName="ua:NodeId" />
  <opc:Field Name="ValueRank" TypeName="opc:Int32" />
  <opc:Field Name="NoOfArrayDimensions" TypeName="opc:Int32" />
  <opc:Field Name="ArrayDimensions" TypeName="opc:UInt32" LengthField="NoOfArrayDimensions" />
  <opc:Field Name="Description" TypeName="ua:LocalizedText" />
</opc:StructuredType>

<opc:StructuredType Name="EnumValueType" BaseType="ua:ExtensionObject">
  <opc:Documentation>A mapping between a value of an enumerated type and a name and description.</opc:Documentation>
  <opc:Field Name="Value" TypeName="opc:Int64" />
  <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" />
  <opc:Field Name="Description" TypeName="ua:LocalizedText" />
</opc:StructuredType>

<opc:StructuredType Name="EnumField" BaseType="tns:EnumValueType">
  <opc:Field Name="Value" TypeName="opc:Int64" SourceType="tns:EnumValueType" />
  <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:EnumValueType" />
  <opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:EnumValueType" />
  <opc:Field Name="Name" TypeName="opc:String" />
</opc:StructuredType>
<opc:StructuredType Name="OptionSet" BaseType="ua:ExtensionObject">
  <opc:Documentation>This abstract Structured DataType is the base DataType for all DataTypes representing a bit mask.</opc:Documentation>
  <opc:Field Name="Value" TypeName="opc:ByteString" />
  <opc:Field Name="ValidBits" TypeName="opc:ByteString" />
</opc:StructuredType>

<opc:StructuredType Name="Union" BaseType="ua:ExtensionObject">
  <opc:Documentation>This abstract DataType is the base DataType for all union DataTypes.</opc:Documentation>
</opc:StructuredType>

<opc:OpaqueType Name="NormalizedString">
  <opc:Documentation>A string normalized based on the rules in the unicode specification.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="DecimalString">
  <opc:Documentation>An arbitrary numeric value.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="DurationString">
  <opc:Documentation>A period of time formatted as defined in ISO 8601-2000.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="TimeString">
  <opc:Documentation>A time formatted as defined in ISO 8601-2000.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="DateString">
  <opc:Documentation>A date formatted as defined in ISO 8601-2000.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="Duration">
  <opc:Documentation>A period of time measured in milliseconds.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="UtcTime">
  <opc:Documentation>A date/time value specified in Universal Coordinated Time (UTC).</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="LocaleId">
  <opc:Documentation>An identifier for a user locale.</opc:Documentation>
</opc:OpaqueType>

<opc:StructuredType Name="TimeZoneDataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="Offset" TypeName="opc:Int16" />
  <opc:Field Name="DaylightSavingInOffset" TypeName="opc:Boolean" />
</opc:StructuredType>
<opc:OpaqueType Name="Index">
  <opc:Documentation>This primitive data type is a UInt32 that identifies an element of an array.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="IntegerId">
  <opc:Documentation>A numeric identifier for an object.</opc:Documentation>
</opc:OpaqueType>

<opc:EnumeratedType Name="ApplicationType" LengthInBits="32">
  <opc:Documentation>The types of applications.</opc:Documentation>
  <opc:EnumeratedValue Name="Server" Value="0" />
  <opc:EnumeratedValue Name="Client" Value="1" />
  <opc:EnumeratedValue Name="ClientAndServer" Value="2" />
  <opc:EnumeratedValue Name="DiscoveryServer" Value="3" />
</opc:EnumeratedType>

<opc:StructuredType Name="ApplicationDescription" BaseType="ua:ExtensionObject">
  <opc:Documentation>Describes an application and how to find it.</opc:Documentation>
  <opc:Field Name="ApplicationUri" TypeName="opc:String" />
  <opc:Field Name="ProductUri" TypeName="opc:String" />
  <opc:Field Name="ApplicationName" TypeName="ua:LocalizedText" />
  <opc:Field Name="ApplicationType" TypeName="tns:ApplicationType" />
  <opc:Field Name="GatewayServerUri" TypeName="opc:String" />
  <opc:Field Name="DiscoveryProfileUri" TypeName="opc:String" />
  <opc:Field Name="NoOfDiscoveryUrls" TypeName="opc:Int32" />
  <opc:Field Name="DiscoveryUrls" TypeName="opc:String" LengthField="NoOfDiscoveryUrls" />
</opc:StructuredType>

<opc:StructuredType Name="RequestHeader" BaseType="ua:ExtensionObject">
  <opc:Documentation>The header passed with every server request.</opc:Documentation>
  <opc:Field Name="AuthenticationToken" TypeName="ua:NodeId" />
  <opc:Field Name="Timestamp" TypeName="opc:DateTime" />
  <opc:Field Name="RequestHandle" TypeName="opc:UInt32" />
  <opc:Field Name="ReturnDiagnostics" TypeName="opc:UInt32" />
  <opc:Field Name="AuditEntryId" TypeName="opc:String" />
  <opc:Field Name="TimeoutHint" TypeName="opc:UInt32" />
  <opc:Field Name="AdditionalHeader" TypeName="ua:ExtensionObject" />
</opc:StructuredType>

<opc:StructuredType Name="ResponseHeader" BaseType="ua:ExtensionObject">
  <opc:Documentation>The header passed with every server response.</opc:Documentation>
  <opc:Field Name="Timestamp" TypeName="opc:DateTime" />
  <opc:Field Name="RequestHandle" TypeName="opc:UInt32" />
  <opc:Field Name="ServiceResult" TypeName="ua:StatusCode" />
  <opc:Field Name="ServiceDiagnostics" TypeName="ua:DiagnosticInfo" />
  <opc:Field Name="NoOfStringTable" TypeName="opc:Int32" />
</opc:StructuredType>
<opc:Field Name="StringTable" TypeName="opc:String" LengthField="NoOfStringTable" />
<opc:Field Name="AdditionalHeader" TypeName="ua:ExtensionObject" />
</opc:StructuredType>

<opc:OpaqueType Name="VersionTime">
</opc:OpaqueType>

<opc:StructuredType Name="ServiceFault" BaseType="ua:ExtensionObject">
<opc:Documentation>The response returned by all services when there is a service level error. </opc:Documentation>
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
</opc:StructuredType>

<opc:StructuredType Name="SessionlessInvokeRequestType" BaseType="ua:ExtensionObject">
<opc:Field Name="NoOfUrisVersion" TypeName="opc:Int32" />
<opc:Field Name="UrisVersion" TypeName="opc:UInt32" LengthField="NoOfUrisVersion" />
<opc:Field Name="NoOfNamespaceUris" TypeName="opc:Int32" />
<opc:Field Name="NamespaceUris" TypeName="opc:String" LengthField="NoOfNamespaceUris" />
<opc:Field Name="NoOfServerUris" TypeName="opc:Int32" />
<opc:Field Name="ServerUris" TypeName="opc:String" LengthField="NoOfServerUris" />
<opc:Field Name="NoOfLocaleIds" TypeName="opc:Int32" />
<opc:Field Name="LocaleIds" TypeName="opc:String" LengthField="NoOfLocaleIds" />
<opc:Field Name="ServiceId" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="SessionlessInvokeResponseType" BaseType="ua:ExtensionObject">
<opc:Field Name="NoOfNamespaceUris" TypeName="opc:Int32" />
<opc:Field Name="NamespaceUris" TypeName="opc:String" LengthField="NoOfNamespaceUris" />
<opc:Field Name="NoOfServerUris" TypeName="opc:Int32" />
<opc:Field Name="ServerUris" TypeName="opc:String" LengthField="NoOfServerUris" />
<opc:Field Name="NoOfLocaleIds" TypeName="opc:Int32" />
<opc:Field Name="LocaleIds" TypeName="opc:String" LengthField="NoOfLocaleIds" />
<opc:Field Name="ServiceId" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="FindServersRequest" BaseType="ua:ExtensionObject">
<opc:Documentation>Finds the servers known to the discovery server. </opc:Documentation>
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="EndpointUrl" TypeName="opc:String" />
<opc:Field Name="NoOfLocaleIds" TypeName="opc:Int32" />
<opc:Field Name="LocaleIds" TypeName="opc:String" LengthField="NoOfLocaleIds" />
<opc:Field Name="NoOfServerUris" TypeName="opc:Int32" />
<opc:Field Name="ServerUris" TypeName="opc:String" LengthField="NoOfServerUris" />
</opc:StructuredType>

<opc:StructuredType Name="FindServersResponse" BaseType="ua:ExtensionObject">
<opc:Documentation>Finds the servers known to the discovery server. </opc:Documentation>
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="NoOfServers" TypeName="opc:Int32" />
<opc:Field Name="Servers" TypeName="tns:ApplicationDescription" LengthField="NoOfServers" />
</opc:StructuredType>
<opc:StructuredType Name="ServerOnNetwork" BaseType="ua:ExtensionObject">
  <opc:Field Name="RecordId" TypeName="opc:UInt32" />
  <opc:Field Name="ServerName" TypeName="opc:String" />
  <opc:Field Name="DiscoveryUrl" TypeName="opc:String" />
  <opc:Field Name="NoOfServerCapabilities" TypeName="opc:Int32" />
  <opc:Field Name="ServerCapabilities" TypeName="opc:String" LengthField="NoOfServerCapabilities" />
</opc:StructuredType>

<opc:StructuredType Name="FindServersOnNetworkRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="StartingRecordId" TypeName="opc:UInt32" />
  <opc:Field Name="MaxRecordsToReturn" TypeName="opc:UInt32" />
  <opc:Field Name="NoOfServerCapabilityFilter" TypeName="opc:Int32" />
  <opc:Field Name="ServerCapabilityFilter" TypeName="opc:String" LengthField="NoOfServerCapabilityFilter" />
</opc:StructuredType>

<opc:StructuredType Name="FindServersOnNetworkResponse" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="LastCounterResetTime" TypeName="opc:DateTime" />
  <opc:Field Name="NoOfServers" TypeName="opc:Int32" />
  <opc:Field Name="Servers" TypeName="tns:ServerOnNetwork" LengthField="NoOfServers" />
</opc:StructuredType>

<opc:OpaqueType Name="ApplicationInstanceCertificate">
  <opc:Documentation>A certificate for an instance of an application.</opc:Documentation>
</opc:OpaqueType>

<opc:EnumeratedType Name="MessageSecurityMode" LengthInBits="32">
  <opc:Documentation>The type of security to use on a message.</opc:Documentation>
  <opc:EnumeratedValue Name="Invalid" Value="0" />
  <opc:EnumeratedValue Name="None" Value="1" />
  <opc:EnumeratedValue Name="Sign" Value="2" />
  <opc:EnumeratedValue Name="SignAndEncrypt" Value="3" />
</opc:EnumeratedType>

<opc:EnumeratedType Name="UserTokenType" LengthInBits="32">
  <opc:Documentation>The possible user token types.</opc:Documentation>
  <opc:EnumeratedValue Name="Anonymous" Value="0" />
  <opc:EnumeratedValue Name="UserName" Value="1" />
  <opc:EnumeratedValue Name="Certificate" Value="2" />
  <opc:EnumeratedValue Name="IssuedToken" Value="3" />
</opc:EnumeratedType>

<opc:StructuredType Name="UserTokenPolicy" BaseType="ua:ExtensionObject">
  <opc:Documentation>Describes a user token that can be used with a server.</opc:Documentation>
</opc:StructuredType>
<opc:StructuredType Name="PolicyId" TypeName="opc:String" />
<opc:Field Name="TokenType" TypeName="tns:UserTokenType" />
<opc:Field Name="IssuedTokenType" TypeName="opc:String" />
<opc:Field Name="IssuerEndpointUrl" TypeName="opc:String" />
<opc:Field Name="SecurityPolicyUri" TypeName="opc:String" />
</opc:StructuredType>

<opc:StructuredType Name="EndpointDescription" BaseType="ua:ExtensionObject">
    <opc:Documentation>The description of a endpoint that can be used to access a server.</opc:Documentation>
    <opc:Field Name="EndpointUrl" TypeName="opc:String" />
    <opc:Field Name="Server" TypeName="tns:ApplicationDescription" />
    <opc:Field Name="ServerCertificate" TypeName="opc:ByteString" />
    <opc:Field Name="SecurityMode" TypeName="tns:MessageSecurityMode" />
    <opc:Field Name="SecurityPolicyUri" TypeName="opc:String" />
    <opc:Field Name="NoOfUserIdentityTokens" TypeName="opc:Int32" LengthField="NoOfUserIdentityTokens" />
    <opc:Field Name="UserIdentityTokens" TypeName="tns:UserTokenPolicy" />
    <opc:Field Name="TransportProfileUri" TypeName="opc:String" />
    <opc:Field Name="SecurityLevel" TypeName="opc:Byte" />
</opc:StructuredType>

<opc:StructuredType Name="GetEndpointsRequest" BaseType="ua:ExtensionObject">
    <opc:Documentation>Gets the endpoints used by the server.</opc:Documentation>
    <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
    <opc:Field Name="EndpointUrl" TypeName="opc:String" />
    <opc:Field Name="NoOfLocaleIds" TypeName="opc:Int32" />
    <opc:Field Name="LocaleIds" TypeName="opc:String" LengthField="NoOfLocaleIds" />
    <opc:Field Name="NoOfProfileUris" TypeName="opc:Int32" />
    <opc:Field Name="ProfileUris" TypeName="opc:String" LengthField="NoOfProfileUris" />
</opc:StructuredType>

<opc:StructuredType Name="GetEndpointsResponse" BaseType="ua:ExtensionObject">
    <opc:Documentation>Gets the endpoints used by the server.</opc:Documentation>
    <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
    <opc:Field Name="NoOfEndpoints" TypeName="opc:Int32" />
    <opc:Field Name="Endpoints" TypeName="tns:EndpointDescription" LengthField="NoOfEndpoints" />
</opc:StructuredType>

<opc:StructuredType Name="RegisteredServer" BaseType="ua:ExtensionObject">
    <opc:Documentation>The information required to register a server with a discovery server.</opc:Documentation>
    <opc:Field Name="ServerUri" TypeName="opc:String" />
    <opc:Field Name="ProductUri" TypeName="opc:String" />
    <opc:Field Name="NoOfServerNames" TypeName="opc:Int32" />
    <opc:Field Name="ServerNames" TypeName="ua:LocalizedText" LengthField="NoOfServerNames" />
    <opc:Field Name="ServerType" TypeName="tns:ApplicationType" />
    <opc:Field Name="GatewayServerUri" TypeName="opc:String" />
    <opc:Field Name="NoOfDiscoveryUrls" TypeName="opc:Int32" />
    <opc:Field Name="DiscoveryUrls" TypeName="opc:String" LengthField="NoOfDiscoveryUrls" />
</opc:StructuredType>
<opc:Field Name="SemaphoreFilePath" TypeName="opc:String" />
<opc:Field Name="IsOnline" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="RegisterServerRequest" BaseType="ua:ExtensionObject">
<opc:Documentation>Registers a server with the discovery server. </opc:Documentation>
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="Server" TypeName="tns:RegisteredServer" />
</opc:StructuredType>

<opc:StructuredType Name="RegisterServerResponse" BaseType="ua:ExtensionObject">
<opc:Documentation>Registers a server with the discovery server. </opc:Documentation>
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
</opc:StructuredType>

<opc:StructuredType Name="DiscoveryConfiguration" BaseType="ua:ExtensionObject">
<opc:Documentation>A base type for discovery configuration information. </opc:Documentation>
</opc:StructuredType>

<opc:StructuredType Name="MdnsDiscoveryConfiguration" BaseType="tns:DiscoveryConfiguration">
<opc:Documentation>The discovery information needed for mDNS registration. </opc:Documentation>
<opc:Field Name="MdnsServerName" TypeName="opc:String" />
<opc:Field Name="NoOfServerCapabilities" TypeName="opc:Int32" />
<opc:Field Name="ServerCapabilities" TypeName="opc:String" LengthField="NoOfServerCapabilities" />
</opc:StructuredType>

<opc:StructuredType Name="RegisterServer2Request" BaseType="ua:ExtensionObject">
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="Server" TypeName="tns:RegisteredServer" />
<opc:Field Name="NoOfDiscoveryConfiguration" TypeName="opc:Int32" />
<opc:Field Name="DiscoveryConfiguration" TypeName="ua:ExtensionObject" LengthField="NoOfDiscoveryConfiguration" />
</opc:StructuredType>

<opc:StructuredType Name="RegisterServer2Response" BaseType="ua:ExtensionObject">
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="NoOfConfigurationResults" TypeName="opc:Int32" />
<opc:Field Name="ConfigurationResults" TypeName="ua:StatusCode" LengthField="NoOfConfigurationResults" />
<opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
<opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:EnumeratedType Name="SecurityTokenRequestType" LengthInBits="32">
<opc:Documentation>Indicates whether a token if being created or renewed. </opc:Documentation>
<opc:EnumeratedValue Name="Issue" Value="0" />
<opc:EnumeratedValue Name="Renew" Value="1" />
</opc:EnumeratedType>
The token that identifies a set of keys for an active secure channel.

Creates a secure channel with a server.

Creates a secure channel.

A software certificate with a digital signature.

A unique identifier for a session used to authenticate requests.

A unique identifier for a session used to authenticate requests.
A digital signature.

<opc:StructuredType Name="CreateSessionRequest" BaseType="ua:ExtensionObject">
<opc:Documentation>Creates a new session with the server.</opc:Documentation>
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="ClientDescription" TypeName="tns:ApplicationDescription" />
<opc:Field Name="ServerUri" TypeName="opc:String" />
<opc:Field Name="EndpointUrl" TypeName="opc:String" />
<opc:Field Name="SessionName" TypeName="opc:String" />
<opc:Field Name="ClientNonce" TypeName="opc:ByteString" />
<opc:Field Name="ClientCertificate" TypeName="opc:ByteString" />
<opc:Field Name="RequestedSessionTimeout" TypeName="opc:Double" />
<opc:Field Name="MaxResponseMessageSize" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="CreateSessionResponse" BaseType="ua:ExtensionObject">
<opc:Documentation>Creates a new session with the server.</opc:Documentation>
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="SessionId" TypeName="ua:NodeId" />
<opc:Field Name="AuthenticationToken" TypeName="ua:NodeId" />
<opc:Field Name="RevisedSessionTimeout" TypeName="opc:Double" />
<opc:Field Name="ServerNonce" TypeName="opc:ByteString" />
<opc:Field Name="ServerCertificate" TypeName="opc:ByteString" />
<opc:Field Name="NoOfServerEndpoints" TypeName="opc:Int32" />
<opc:Field Name="ServerEndpoints" TypeName="tns:EndpointDescription" LengthField="NoOfServerEndpoints" />
<opc:Field Name="NoOfServerSoftwareCertificates" TypeName="opc:Int32" />
<opc:Field Name="ServerSoftwareCertificates" TypeName="tns:SignedSoftwareCertificate" LengthField="NoOfServerSoftwareCertificates" />
<opc:Field Name="ServerSignature" TypeName="tns:SignatureData" />
<opc:Field Name="MaxRequestMessageSize" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="UserIdentityToken" BaseType="ua:ExtensionObject">
<opc:Documentation>A base type for a user identity token.</opc:Documentation>
<opc:Field Name="PolicyId" TypeName="opc:String" />
</opc:StructuredType>

<opc:StructuredType Name="AnonymousIdentityToken" BaseType="tns:UserIdentityToken">
<opc:Documentation>A token representing an anonymous user.</opc:Documentation>
<opc:Field Name="PolicyId" TypeName="opc:String" SourceType="tns:UserIdentityToken" />
</opc:StructuredType>

<opc:StructuredType Name="UserNameIdentityToken" BaseType="tns:UserIdentityToken">
<opc:Documentation>A token representing a user identified by a user name and password.</opc:Documentation>
<opc:Field Name="PolicyId" TypeName="opc:String" SourceType="tns:UserIdentityToken" />
</opc:StructuredType>
<opc:StructuredType Name="DeleteSubscriptions" BaseType="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="CloseSessionResponse" BaseType="ua:ExtensionObject">
<opc:Documentation>Closes a session with the server.</opc:Documentation>
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
</opc:StructuredType>

<opc:StructuredType Name="CancelRequest" BaseType="ua:ExtensionObject">
<opc:Documentation>Cancels an outstanding request.</opc:Documentation>
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="RequestHandle" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="CancelResponse" BaseType="ua:ExtensionObject">
<opc:Documentation>Cancels an outstanding request.</opc:Documentation>
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="CancelCount" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:EnumeratedType Name="NodeAttributesMask" LengthInBits="32">
<opc:Documentation>The bits used to specify default attributes for a new node.</opc:Documentation>
<opc:EnumeratedValue Name="None" Value="0" />
<opc:EnumeratedValue Name="AccessLevel" Value="1" />
<opc:EnumeratedValue Name="ArrayDimensions" Value="2" />
<opc:EnumeratedValue Name="BrowseName" Value="4" />
<opc:EnumeratedValue Name="ContainsNoLoops" Value="8" />
<opc:EnumeratedValue Name="DataType" Value="16" />
<opc:EnumeratedValue Name="Description" Value="32" />
<opc:EnumeratedValue Name="DisplayName" Value="64" />
<opc:EnumeratedValue Name="EventNotifier" Value="128" />
<opc:EnumeratedValue Name="Executable" Value="256" />
<opc:EnumeratedValue Name="Historizing" Value="512" />
<opc:EnumeratedValue Name="InverseName" Value="1024" />
<opc:EnumeratedValue Name="IsAbstract" Value="2048" />
<opc:EnumeratedValue Name="MinimumSamplingInterval" Value="4096" />
<opc:EnumeratedValue Name="NodeId" Value="8192" />
<opc:EnumeratedValue Name="NodeClass" Value="16384" />
<opc:EnumeratedValue Name="Symfony" Value="32768" />
<opc:EnumeratedValue Name="UserAccessLevel" Value="65536" />
<opc:EnumeratedValue Name="UserExecutable" Value="131072" />
<opc:EnumeratedValue Name="UserWriteMask" Value="262144" />
<opc:EnumeratedValue Name="ValueRank" Value="524288" />
<opc:EnumeratedValue Name="WriteMask" Value="1048576" />
<opc:EnumeratedValue Name="Value" Value="2097152" />
<opc:EnumeratedValue Name="DataTypeDefinition" Value="4194304" />
<opc:EnumeratedValue Name="RolePermissions" Value="8388608" />
<opc:EnumeratedValue Name="AccessRestrictions" Value="16777216" />
<opc:EnumeratedValue Name="All" Value="33554431" />  
<opc:EnumeratedValue Name="BaseNode" Value="26501220" />  
<opc:EnumeratedValue Name="Object" Value="26501348" />  
<opc:EnumeratedValue Name="ObjectType" Value="26503268" />  
<opc:EnumeratedValue Name="Variable" Value="26571383" />  
<opc:EnumeratedValue Name="VariableType" Value="28600438" />  
<opc:EnumeratedValue Name="Method" Value="26632548" />  
<opc:EnumeratedValue Name="ReferenceType" Value="26537060" />  
<opc:EnumeratedValue Name="View" Value="26501356" />  
</opc:EnumeratedType>

<opc:StructuredType Name="NodeAttributes" BaseType="ua:ExtensionObject">
  <opc:Documentation>The base attributes for all nodes.</opc:Documentation>
  <opc:Field Name="SpecifiedAttributes" TypeName="opc:UInt32" />  
  <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" />  
  <opc:Field Name="Description" TypeName="ua:LocalizedText" />  
  <opc:Field Name="WriteMask" TypeName="opc:UInt32" />  
  <opc:Field Name="UserWriteMask" TypeName="opc:UInt32" />  
</opc:StructuredType>

<opc:StructuredType Name="ObjectAttributes" BaseType="tns:NodeAttributes">
  <opc:Documentation>The attributes for an object node.</opc:Documentation>
  <opc:Field Name="SpecifiedAttributes" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />  
  <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />  
  <opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />  
  <opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />  
  <opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />  
  <opc:Field Name="EventNotifier" TypeName="opc:Byte" />  
</opc:StructuredType>

<opc:StructuredType Name="VariableAttributes" BaseType="tns:NodeAttributes">
  <opc:Documentation>The attributes for a variable node.</opc:Documentation>
  <opc:Field Name="SpecifiedAttributes" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />  
  <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />  
  <opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />  
  <opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />  
  <opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />  
  <opc:Field Name="Value" TypeName="ua:Variant" />  
  <opc:Field Name="DataType" TypeName="ua:NodeId" />  
  <opc:Field Name="ValueRank" TypeName="opc:Int32" />  
  <opc:Field Name="NoOfArrayDimensions" TypeName="opc:Int32" />  
  <opc:Field Name="ArrayDimensions" TypeName="opc:UInt32" LengthField="NoOfArrayDimensions" />  
  <opc:Field Name="AccessLevel" TypeName="opc:Byte" />  
  <opc:Field Name="UserAccessLevel" TypeName="opc:Byte" />  
  <opc:Field Name="MinimumSamplingInterval" TypeName="opc:Double" />  
  <opc:Field Name="Historizing" TypeName="opc:Boolean" />  
</opc:StructuredType>
<opc:StructuredType Name="MethodAttributes" BaseType="tns:NodeAttributes">
  <opc:Documentation>The attributes for a method node.</opc:Documentation>
  <opc:Field Name="SpecifiedAttributes" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
  <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
  <opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
  <opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
  <opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
  <opc:Field Name="Executable" TypeName="opc:Boolean" />
  <opc:Field Name="UserExecutable" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="ObjectTypeAttributes" BaseType="tns:NodeAttributes">
  <opc:Documentation>The attributes for an object type node.</opc:Documentation>
  <opc:Field Name="SpecifiedAttributes" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
  <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
  <opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
  <opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
  <opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
  <opc:Field Name="IsAbstract" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="VariableTypeAttributes" BaseType="tns:NodeAttributes">
  <opc:Documentation>The attributes for a variable type node.</opc:Documentation>
  <opc:Field Name="SpecifiedAttributes" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
  <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
  <opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
  <opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
  <opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
  <opc:Field Name="Value" TypeName="ua:Variant" />
  <opc:Field Name="DataType" TypeName="ua:NodeId" />
  <opc:Field Name="ValueRank" TypeName="opc:Int32" />
  <opc:Field Name="NoOfArrayDimensions" TypeName="opc:UInt32" />
  <opc:Field Name="ArrayDimensions" TypeName="opc:UInt32" LengthField="NoOfArrayDimensions" />
  <opc:Field Name="IsAbstract" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="ReferenceTypeAttributes" BaseType="tns:NodeAttributes">
  <opc:Documentation>The attributes for a reference type node.</opc:Documentation>
  <opc:Field Name="SpecifiedAttributes" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
  <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
  <opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
  <opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
  <opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
  <opc:Field Name="IsAbstract" TypeName="opc:Boolean" />
  <opc:Field Name="Symmetric" TypeName="opc:Boolean" />
  <opc:Field Name="InverseName" TypeName="ua:LocalizedText" />
</opc:StructuredType>
<opc:StructuredType Name="DataTypeAttributes" BaseType="tns:NodeAttributes">
  <opc:Field Name="SpecifiedAttributes" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
  <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
  <opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
  <opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
  <opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
  <opc:Field Name="IsAbstract" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="ViewAttributes" BaseType="tns:NodeAttributes">
  <opc:Field Name="SpecifiedAttributes" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
  <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
  <opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
  <opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
  <opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
  <opc:Field Name="ContainsNoLoops" TypeName="opc:Boolean" />
  <opc:Field Name="EventNotifier" TypeName="opc:Byte" />
</opc:StructuredType>

<opc:StructuredType Name="GenericAttributeValue" BaseType="ua:ExtensionObject">
  <opc:Field Name="AttributeId" TypeName="opc:UInt32" />
  <opc:Field Name="Value" TypeName="ua:Variant" />
</opc:StructuredType>

<opc:StructuredType Name="GenericAttributes" BaseType="tns:NodeAttributes">
  <opc:Field Name="SpecifiedAttributes" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
  <opc:Field Name="DisplayName" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
  <opc:Field Name="Description" TypeName="ua:LocalizedText" SourceType="tns:NodeAttributes" />
  <opc:Field Name="WriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
  <opc:Field Name="UserWriteMask" TypeName="opc:UInt32" SourceType="tns:NodeAttributes" />
  <opc:Field Name="NoOfAttributeValues" TypeName="opc:Int32" />
  <opc:Field Name="AttributeValues" TypeName="tns:GenericAttributeValue" LengthField="NoOfAttributeValues" />
</opc:StructuredType>

<opc:StructuredType Name="AddNodesItem" BaseType="ua:ExtensionObject">
  <opc:Documentation>A request to add a node to the server address space.</opc:Documentation>
  <opc:Field Name="ParentNodeId" TypeName="ua:ExpandedNodeId" />
  <opc:Field Name="ReferenceTypeId" TypeName="ua:NodeId" />
  <opc:Field Name="RequestedNewNodeId" TypeName="ua:ExpandedNodeId" />
  <opc:Field Name="BrowseName" TypeName="ua:QualifiedName" />
  <opc:Field Name="NodeClass" TypeName="tns:NodeClass" />
  <opc:Field Name="NodeAttributes" TypeName="ua:ExtensionObject" />
  <opc:Field Name="TypeDefinition" TypeName="ua:ExpandedNodeId" />
</opc:StructuredType>
<opc:StructuredType Name="AddNodesResult" BaseType="ua:ExtensionObject">
  <opc:Documentation>A result of an add node operation.</opc:Documentation>
  <opc:Field Name="StatusCode" TypeName="ua:StatusCode" />
  <opc:Field Name="AddedNodeId" TypeName="ua:NodeId" />
</opc:StructuredType>

<opc:StructuredType Name="AddNodesRequest" BaseType="ua:ExtensionObject">
  <opc:Documentation>Adds one or more nodes to the server address space.</opc:Documentation>
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="NoOfNodesToAdd" TypeName="opc:Int32" />
  <opc:Field Name="NodesToAdd" TypeName="tns:AddNodesItem" LengthField="NoOfNodesToAdd" />
</opc:StructuredType>

<opc:StructuredType Name="AddNodesResponse" BaseType="ua:ExtensionObject">
  <opc:Documentation>Adds one or more nodes to the server address space.</opc:Documentation>
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
  <opc:Field Name="Results" TypeName="ua:StatusCode" LengthField="NoOfResults" />
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="AddReferencesItem" BaseType="ua:ExtensionObject">
  <opc:Documentation>A request to add a reference to the server address space.</opc:Documentation>
  <opc:Field Name="SourceNodeId" TypeName="ua:NodeId" />
  <opc:Field Name="ReferenceTypeId" TypeName="ua:NodeId" />
  <opc:Field Name="IsForward" TypeName="opc:Boolean" />
  <opc:Field Name="TargetServerUri" TypeName="opc:String" />
  <opc:Field Name="TargetNodeId" TypeName="ua:ExpandedNodeId" />
  <opc:Field Name="TargetNodeClass" TypeName="tns:NodeClass" />
</opc:StructuredType>

<opc:StructuredType Name="AddReferencesRequest" BaseType="ua:ExtensionObject">
  <opc:Documentation>Adds one or more references to the server address space.</opc:Documentation>
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="NoOfReferencesToAdd" TypeName="opc:Int32" />
  <opc:Field Name="ReferencesToAdd" TypeName="tns:AddReferencesItem" LengthField="NoOfReferencesToAdd" />
</opc:StructuredType>

<opc:StructuredType Name="AddReferencesResponse" BaseType="ua:ExtensionObject">
  <opc:Documentation>Adds one or more references to the server address space.</opc:Documentation>
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
  <opc:Field Name="Results" TypeName="ua:StatusCode" LengthField="NoOfResults" />
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>
<opc:StructuredType Name="DeleteNodesItem" BaseType="ua:ExtensionObject">
    <opc:Documentation>A request to delete a node to the server address space.</opc:Documentation>
    <opc:Field Name="NodeId" TypeName="ua:NodeId" />
    <opc:Field Name="DeleteTargetReferences" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteNodesRequest" BaseType="ua:ExtensionObject">
    <opc:Documentation>Delete one or more nodes from the server address space.</opc:Documentation>
    <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
    <opc:Field Name="NoOfNodesToDelete" TypeName="opc:Int32" />
    <opc:Field Name="NodesToDelete" TypeName="tns:DeleteNodesItem" LengthField="NoOfNodesToDelete" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteNodesResponse" BaseType="ua:ExtensionObject">
    <opc:Documentation>Delete one or more nodes from the server address space.</opc:Documentation>
    <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
    <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
    <opc:Field Name="Results" TypeName="ua:StatusCode" LengthField="NoOfResults" />
    <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
    <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteReferencesItem" BaseType="ua:ExtensionObject">
    <opc:Documentation>A request to delete a node from the server address space.</opc:Documentation>
    <opc:Field Name="SourceNodeId" TypeName="ua:NodeId" />
    <opc:Field Name="ReferenceTypeId" TypeName="ua:NodeId" />
    <opc:Field Name="IsForward" TypeName="opc:Boolean" />
    <opc:Field Name="TargetNodeId" TypeName="ua:ExpandedNodeId" />
    <opc:Field Name="DeleteBidirectional" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteReferencesRequest" BaseType="ua:ExtensionObject">
    <opc:Documentation>Delete one or more references from the server address space.</opc:Documentation>
    <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
    <opc:Field Name="NoOfReferencesToDelete" TypeName="opc:Int32" />
    <opc:Field Name="ReferencesToDelete" TypeName="tns:DeleteReferencesItem" LengthField="NoOfReferencesToDelete" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteReferencesResponse" BaseType="ua:ExtensionObject">
    <opc:Documentation>Delete one or more references from the server address space.</opc:Documentation>
    <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
    <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
    <opc:Field Name="Results" TypeName="ua:StatusCode" LengthField="NoOfResults" />
    <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
    <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>
<opc:Documentation>A request to browse the the references from a node.</opc:Documentation>
<opc:Field Name="NodeId" TypeName="ua:NodeId" />
<opc:Field Name="BrowseDirection" TypeName="tns:BrowseDirection" />
<opc:Field Name="ReferenceTypeId" TypeName="ua:NodeId" />
<opc:Field Name="IncludeSubtypes" TypeName="opc:Boolean" />
<opc:Field Name="NodeClassMask" TypeName="opc:UInt32" />
<opc:Field Name="ResultMask" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:EnumeratedType Name="BrowseResultMask" LengthInBits="32">
<opc:Documentation>A bit mask which specifies what should be returned in a browse response.</opc:Documentation>
<opc:EnumeratedValue Name="None" Value="0" />
<opc:EnumeratedValue Name="ReferenceTypeId" Value="1" />
<opc:EnumeratedValue Name="IsForward" Value="2" />
<opc:EnumeratedValue Name="NodeClass" Value="4" />
<opc:EnumeratedValue Name="BrowseName" Value="8" />
<opc:EnumeratedValue Name="DisplayName" Value="16" />
<opc:EnumeratedValue Name="TypeDefinition" Value="32" />
<opc:EnumeratedValue Name="All" Value="63" />
<opc:EnumeratedValue Name="ReferenceTypeInfo" Value="3" />
<opc:EnumeratedValue Name="TargetInfo" Value="60" />
</opc:EnumeratedType>

<opc:StructuredType Name="ReferenceDescription" BaseType="ua:ExtensionObject">
<opc:Documentation>The description of a reference.</opc:Documentation>
<opc:Field Name="ReferenceTypeId" TypeName="ua:NodeId" />
<opc:Field Name="IsForward" TypeName="opc:Boolean" />
<opc:Field Name="NodeId" TypeName="ua:ExpandedNodeId" />
<opc:Field Name="BrowseName" TypeName="ua:QualifiedName" />
<opc:Field Name="DisplayName" TypeName="ua:LocalizedText" />
<opc:Field Name="NodeClass" TypeName="tns:NodeClass" />
<opc:Field Name="TypeDefinition" TypeName="ua:ExpandedNodeId" />
</opc:StructuredType>

<opc:OpaqueType Name="ContinuationPoint">
<opc:Documentation>An identifier for a suspended query or browse operation.</opc:Documentation>
</opc:OpaqueType>

<opc:StructuredType Name="BrowseResult" BaseType="ua:ExtensionObject">
<opc:Documentation>The result of a browse operation.</opc:Documentation>
<opc:Field Name="StatusCode" TypeName="ua:StatusCode" />
<opc:Field Name="ContinuationPoint" TypeName="opc:ByteString" />
<opc:Field Name="NoOfReferences" TypeName="opc:Int32" />
<opc:Field Name="References" TypeName="tns:ReferenceDescription" LengthField="NoOfReferences" />
</opc:StructuredType>

<opc:StructuredType Name="BrowseRequest" BaseType="ua:ExtensionObject"
<opc:Documentation>Browse the references for one or more nodes from the server address space.</opc:Documentation>

<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="View" TypeName="tns:ViewDescription" />
<opc:Field Name="RequestedMaxReferencesPerNode" TypeName="opc:UInt32" />
<opc:Field Name="NoOfNodesToBrowse" TypeName="opc:Int32" />
<opc:Field Name="NodesToBrowse" TypeName="tns:BrowseDescription" LengthField="NoOfNodesToBrowse" />

<opc:StructuredType Name="BrowseResponse" BaseType="ua:ExtensionObject">
    <opc:Documentation>Browse the references for one or more nodes from the server address space.</opc:Documentation>
    <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
    <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
    <opc:Field Name="Results" TypeName="tns:BrowseResult" LengthField="NoOfResults" />
    <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
    <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="BrowseNextRequest" BaseType="ua:ExtensionObject">
    <opc:Documentation>Continues one or more browse operations.</opc:Documentation>
    <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
    <opc:Field Name="ReleaseContinuationPoints" TypeName="opc:Boolean" />
    <opc:Field Name="NoOfContinuationPoints" TypeName="opc:Int32" />
    <opc:Field Name="ContinuationPoints" TypeName="opc:ByteString" LengthField="NoOfContinuationPoints" />
</opc:StructuredType>

<opc:StructuredType Name="BrowseNextResponse" BaseType="ua:ExtensionObject">
    <opc:Documentation>Continues one or more browse operations.</opc:Documentation>
    <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
    <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
    <opc:Field Name="Results" TypeName="tns:BrowseResult" LengthField="NoOfResults" />
    <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
    <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="RelativePathElement" BaseType="ua:ExtensionObject">
    <opc:Documentation>An element in a relative path.</opc:Documentation>
    <opc:Field Name="ReferenceTypeId" TypeName="ua:NodeId" />
    <opc:Field Name="IsInverse" TypeName="opc:Boolean" />
    <opc:Field Name="IncludeSubtypes" TypeName="opc:Boolean" />
    <opc:Field Name="TargetName" TypeName="ua:QualifiedName" />
</opc:StructuredType>

<opc:StructuredType Name="RelativePath" BaseType="ua:ExtensionObject">
    <opc:Documentation>A relative path constructed from reference types and browse names.</opc:Documentation>
    <opc:Field Name="NoOfElements" TypeName="opc:Int32" />
</opc:StructuredType>
<opc:StructuredType Name="Elements" TypeName="tns:RelativePathElement" LengthField="NoOfElements" />
</opc:StructuredType>

<opc:StructuredType Name="BrowsePath" BaseType="ua:ExtensionObject">
<opc:Documentation>A request to translate a path into a node id.</opc:Documentation>
<opc:Field Name="StartingNode" TypeName="ua:NodeId" />
<opc:Field Name="RelativePath" TypeName="tns:RelativePath" />
</opc:StructuredType>

<opc:StructuredType Name="BrowsePathTarget" BaseType="ua:ExtensionObject">
<opc:Documentation>The target of the translated path.</opc:Documentation>
<opc:Field Name="TargetId" TypeName="ua:ExpandedNodeId" />
<opc:Field Name="RemainingPathIndex" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="BrowsePathResult" BaseType="ua:ExtensionObject">
<opc:Documentation>The result of a translate operation.</opc:Documentation>
<opc:Field Name="StatusCode" TypeName="ua:StatusCode" />
<opc:Field Name="NoOfTargets" TypeName="opc:Int32" />
<opc:Field Name="Targets" TypeName="tns:BrowsePathTarget" LengthField="NoOfTargets" />
</opc:StructuredType>

<opc:StructuredType Name="TranslateBrowsePathsToNodeIdsRequest" BaseType="ua:ExtensionObject">
<opc:Documentation>Translates one or more paths in the server address space.</opc:Documentation>
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="NoOfBrowsePaths" TypeName="opc:Int32" />
<opc:Field Name="BrowsePaths" TypeName="tns:BrowsePath" LengthField="NoOfBrowsePaths" />
</opc:StructuredType>

<opc:StructuredType Name="TranslateBrowsePathsToNodeIdsResponse" BaseType="ua:ExtensionObject">
<opc:Documentation>Translates one or more paths in the server address space.</opc:Documentation>
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="NoOfResults" TypeName="opc:Int32" />
<opc:Field Name="Results" TypeName="tns:BrowsePathResult" LengthField="NoOfResults" />
<opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
<opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="RegisterNodesRequest" BaseType="ua:ExtensionObject">
<opc:Documentation>Registers one or more nodes for repeated use within a session.</opc:Documentation>
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="NoOfNodesToRegister" TypeName="opc:Int32" />
<opc:Field Name="NodesToRegister" TypeName="ua:NodeId" LengthField="NoOfNodesToRegister" />
</opc:StructuredType>

<opc:StructuredType Name="RegisterNodesResponse" BaseType="ua:ExtensionObject">
<opc:Documentation>Registers one or more nodes for repeated use within a session.</opc:Documentation>
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="NoOfNodesRegistered" TypeName="opc:Int32" />
<opc:Field Name="NodesRegistered" TypeName="ua:NodeId" LengthField="NoOfNodesRegistered" />
</opc:StructuredType>
<opc:Field Name="NoOfRegisteredNodeIds" TypeName="opc:Int32" />
<opc:Field Name="RegisteredNodeIds" TypeName="ua:NodeId" LengthField="NoOfRegisteredNodeIds" />
</opc:StructuredType>

<opc:StructuredType Name="UnregisterNodesRequest" BaseType="ua:ExtensionObject">
<opc:Documentation>Unregisters one or more previously registered nodes.</opc:Documentation>
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="NoOfNodesToUnregister" TypeName="opc:Int32" />
<opc:Field Name="NodesToUnregister" TypeName="ua:NodeId" LengthField="NoOfNodesToUnregister" />
</opc:StructuredType>

<opc:StructuredType Name="UnregisterNodesResponse" BaseType="ua:ExtensionObject">
<opc:Documentation>Unregisters one or more previously registered nodes.</opc:Documentation>
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
</opc:StructuredType>

<opc:OpaqueType Name="Counter">
<opc:Documentation>A monotonically increasing value.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="NumericRange">
<opc:Documentation>Specifies a range of array indexes.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="Time">
<opc:Documentation>A time value specified as HH:MM:SS.SSS.</opc:Documentation>
</opc:OpaqueType>

<opc:OpaqueType Name="Date">
<opc:Documentation>A date value.</opc:Documentation>
</opc:OpaqueType>

<opc:StructuredType Name="EndpointConfiguration" BaseType="ua:ExtensionObject">
<opc:Field Name="OperationTimeout" TypeName="opc:Int32" />
<opc:Field Name="UseBinaryEncoding" TypeName="opc:Boolean" />
<opc:Field Name="MaxStringLength" TypeName="opc:Int32" />
<opc:Field Name="MaxByteStringLength" TypeName="opc:Int32" />
<opc:Field Name="MaxArrayLength" TypeName="opc:Int32" />
<opc:Field Name="MaxMessageSize" TypeName="opc:Int32" />
<opc:Field Name="MaxBufferSize" TypeName="opc:Int32" />
<opc:Field Name="ChannelLifetime" TypeName="opc:Int32" />
<opc:Field Name="SecurityTokenLifetime" TypeName="opc:Int32" />
</opc:StructuredType>

<opc:StructuredType Name="QueryDataDescription" BaseType="ua:ExtensionObject">
<opc:Field Name="RelativePath" TypeName="tns:RelativePath" />
<opc:Field Name="AttributeId" TypeName="opc:UInt32" />
<opc:Field Name="IndexRange" TypeName="opc:String" />
</opc:StructuredType>
<opc:StructuredType>
<opc:StructuredType Name="ReadEventDetails" BaseType="tns:HistoryReadDetails">
<opc:Field Name="NumValuesPerNode" TypeName="opc:UInt32" />
<opc:Field Name="StartTime" TypeName="opc:DateTime" />
<opc:Field Name="EndTime" TypeName="opc:DateTime" />
<opc:Field Name="Filter" TypeName="tns:EventFilter" />
</opc:StructuredType>
</opc:StructuredType>

<opc:StructuredType Name="ReadRawModifiedDetails" BaseType="tns:HistoryReadDetails">
<opc:Field Name="IsReadModified" TypeName="opc:Boolean" />
<opc:Field Name="StartTime" TypeName="opc:DateTime" />
<opc:Field Name="EndTime" TypeName="opc:DateTime" />
<opc:Field Name="NumValuesPerNode" TypeName="opc:UInt32" />
<opc:Field Name="ReturnBounds" TypeName="opc:Boolean" />
</opc:StructuredType>
</opc:StructuredType>

<opc:StructuredType Name="ReadProcessedDetails" BaseType="tns:HistoryReadDetails">
<opc:Field Name="StartTime" TypeName="opc:DateTime" />
<opc:Field Name="EndTime" TypeName="opc:DateTime" />
<opc:Field Name="ProcessingInterval" TypeName="opc:Double" />
<opc:Field Name="NoOfAggregateType" TypeName="opc:UInt32" />
<opc:Field Name="AggregateType" TypeName="ua:NodeId" LengthField="NoOfAggregateType" />
<opc:Field Name="AggregateConfiguration" TypeName="tns:AggregateConfiguration" />
</opc:StructuredType>
</opc:StructuredType>

<opc:StructuredType Name="ReadAtTimeDetails" BaseType="tns:HistoryReadDetails">
<opc:Field Name="NoOfReqTimes" TypeName="opc:UInt32" />
<opc:Field Name="ReqTimes" TypeName="opc:DateTime" LengthField="NoOfReqTimes" />
<opc:Field Name="UseSimpleBounds" TypeName="opc:Boolean" />
</opc:StructuredType>
</opc:StructuredType>

<opc:StructuredType Name="HistoryData" BaseType="ua:ExtensionObject">
<opc:Field Name="NoOfDataValues" TypeName="opc:UInt32" />
<opc:Field Name="DataValues" TypeName="ua:DataValue" LengthField="NoOfDataValues" />
</opc:StructuredType>
</opc:StructuredType>

<opc:StructuredType Name="ModificationInfo" BaseType="ua:ExtensionObject">
<opc:Field Name="ModificationTime" TypeName="opc:DateTime" />
<opc:Field Name="UpdateType" TypeName="tns:HistoryUpdateType" />
<opc:Field Name="UserName" TypeName="opc:String" />
</opc:StructuredType>
</opc:StructuredType>

<opc:StructuredType Name="HistoryModifiedData" BaseType="tns:HistoryData">
<opc:Field Name="NoOfDataValues" TypeName="opc:UInt32" />
<opc:Field Name="DataValues" TypeName="ua:DataValue" LengthField="NoOfDataValues" />
<opc:Field Name="NoOfModificationInfos" TypeName="opc:UInt32" />
<opc:Field Name="ModificationInfos" TypeName="tns:ModificationInfo"
<opc:StructuredType Name="HistoryEvent" BaseType="ua:ExtensionObject">
    <opc:Field Name="NoOfEvents" TypeName="opc:Int32" />
    <opc:Field Name="Events" TypeName="tns:HistoryEventFieldList" LengthField="NoOfEvents" />
</opc:StructuredType>

<opc:StructuredType Name="HistoryReadRequest" BaseType="ua:ExtensionObject">
    <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
    <opc:Field Name="HistoryReadDetails" TypeName="ua:ExtensionObject" />
    <opc:Field Name="TimestampsToReturn" TypeName="tns:TimestampsToReturn" />
    <opc:Field Name="ReleaseContinuationPoints" TypeName="opc:Boolean" />
    <opc:Field Name="NoOfNodesToRead" TypeName="opc:Int32" />
    <opc:Field Name="NodesToRead" TypeName="tns:HistoryReadValueId" LengthField="NoOfNodesToRead" />
</opc:StructuredType>

<opc:StructuredType Name="HistoryReadResponse" BaseType="ua:ExtensionObject">
    <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
    <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
    <opc:Field Name="Results" TypeName="tns:HistoryReadResult" LengthField="NoOfResults" />
    <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
    <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="WriteValue" BaseType="ua:ExtensionObject">
    <opc:Field Name="NodeId" TypeName="ua:NodeId" />
    <opc:Field Name="AttributeId" TypeName="opc:UInt32" />
    <opc:Field Name="IndexRange" TypeName="opc:String" />
    <opc:Field Name="Value" TypeName="ua:DataValue" />
</opc:StructuredType>

<opc:StructuredType Name="WriteRequest" BaseType="ua:ExtensionObject">
    <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
    <opc:Field Name="NoOfNodesToWrite" TypeName="opc:Int32" />
    <opc:Field Name="NodesToWrite" TypeName="tns:WriteValue" LengthField="NoOfNodesToWrite" />
</opc:StructuredType>

<opc:StructuredType Name="WriteResponse" BaseType="ua:ExtensionObject">
    <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
    <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
    <opc:Field Name="Results" TypeName="ua:StatusCode" LengthField="NoOfResults" />
    <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
    <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="HistoryUpdateDetails" BaseType="ua:ExtensionObject">
    <opc:Field Name="NodeId" TypeName="ua:NodeId" />
</opc:StructuredType>
<opc:StructuredType>

<opc:EnumeratedType Name="HistoryUpdateType" LengthInBits="32">
  <opc:EnumeratedValue Name="Insert" Value="1" />
  <opc:EnumeratedValue Name="Replace" Value="2" />
  <opc:EnumeratedValue Name="Update" Value="3" />
  <opc:EnumeratedValue Name="Delete" Value="4" />
</opc:EnumeratedType>

<opc:EnumeratedType Name="PerformUpdateType" LengthInBits="32">
  <opc:EnumeratedValue Name="Insert" Value="1" />
  <opc:EnumeratedValue Name="Replace" Value="2" />
  <opc:EnumeratedValue Name="Update" Value="3" />
  <opc:EnumeratedValue Name="Remove" Value="4" />
</opc:EnumeratedType>

<opc:StructuredType Name="UpdateDataDetails" BaseType="tns:HistoryUpdateDetails">
  <opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:HistoryUpdateDetails" />
  <opc:Field Name="PerformInsertReplace" TypeName="tns:PerformUpdateType" />
  <opc:Field Name="NoOfUpdateValues" TypeName="opc:Int32" />
  <opc:Field Name="UpdateValues" TypeName="ua:DataValue" LengthField="NoOfUpdateValues" />
</opc:StructuredType>

<opc:StructuredType Name="UpdateStructureDataDetails" BaseType="tns:HistoryUpdateDetails">
  <opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:HistoryUpdateDetails" />
  <opc:Field Name="PerformInsertReplace" TypeName="tns:PerformUpdateType" />
  <opc:Field Name="NoOfUpdateValues" TypeName="opc:Int32" />
  <opc:Field Name="UpdateValues" TypeName="ua:DataValue" LengthField="NoOfUpdateValues" />
</opc:StructuredType>

<opc:StructuredType Name="UpdateEventDetails" BaseType="tns:HistoryUpdateDetails">
  <opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:HistoryUpdateDetails" />
  <opc:Field Name="PerformInsertReplace" TypeName="tns:PerformUpdateType" />
  <opc:Field Name="Filter" TypeName="tns:EventFilter" />
  <opc:Field Name="NoOfEventData" TypeName="opc:Int32" />
  <opc:Field Name="EventData" TypeName="tns:HistoryEventFieldList" LengthField="NoOfEventData" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteRawModifiedDetails" BaseType="tns:HistoryUpdateDetails">
  <opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:HistoryUpdateDetails" />
  <opc:Field Name="IsDeleteModified" TypeName="opc:Boolean" />
  <opc:Field Name="StartTime" TypeName="opc:DateTime" />
  <opc:Field Name="EndTime" TypeName="opc:DateTime" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteAtTimeDetails" BaseType="tns:HistoryUpdateDetails">
  <opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:HistoryUpdateDetails" />
  <opc:Field Name="NoOfReqTimes" TypeName="opc:Int32" />
</opc:StructuredType>
<opc:StructuredType Name="DeleteEventDetails" BaseType="tns:HistoryUpdateDetails">
 <opc:Field Name="NodeId" TypeName="ua:NodeId" SourceType="tns:HistoryUpdateDetails" />
 <opc:Field Name="NoOfEventIds" TypeName="opc:Int32" />
 <opc:Field Name="EventIds" TypeName="opc:ByteString" LengthField="NoOfEventIds" />
</opc:StructuredType>

<opc:StructuredType Name="HistoryUpdateResult" BaseType="ua:ExtensionObject">
 <opc:Field Name="StatusCode" TypeName="ua:StatusCode" />
 <opc:Field Name="NoOfOperationResults" TypeName="opc:Int32" />
 <opc:Field Name="OperationResults" TypeName="ua:StatusCode" LengthField="NoOfOperationResults" />
 <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
 <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="HistoryUpdateRequest" BaseType="ua:ExtensionObject">
 <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
 <opc:Field Name="NoOfHistoryUpdateDetails" TypeName="opc:Int32" />
 <opc:Field Name="HistoryUpdateDetails" TypeName="ua:ExtensionObject" LengthField="NoOfHistoryUpdateDetails" />
</opc:StructuredType>

<opc:StructuredType Name="HistoryUpdateResponse" BaseType="ua:ExtensionObject">
 <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
 <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
 <opc:Field Name="Results" TypeName="tns:HistoryUpdateResult" LengthField="NoOfResults" />
 <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
 <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="CallMethodRequest" BaseType="ua:ExtensionObject">
 <opc:Field Name="ObjectId" TypeName="ua:NodeId" />
 <opc:Field Name="MethodId" TypeName="ua:NodeId" />
 <opc:Field Name="NoOfInputArguments" TypeName="opc:Int32" />
 <opc:Field Name="InputArguments" TypeName="ua:Variant" LengthField="NoOfInputArguments" />
</opc:StructuredType>

<opc:StructuredType Name="CallMethodResult" BaseType="ua:ExtensionObject">
 <opc:Field Name="StatusCode" TypeName="ua:StatusCode" />
 <opc:Field Name="NoOfInputArgumentResults" TypeName="opc:Int32" />
 <opc:Field Name="InputArgumentResults" TypeName="ua:StatusCode" LengthField="NoOfInputArgumentResults" />
 <opc:Field Name="NoOfInputArgumentDiagnosticInfos" TypeName="opc:Int32" />
 <opc:Field Name="InputArgumentDiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfInputArgumentDiagnosticInfos" />
 <opc:Field Name="NoOfOutputArguments" TypeName="opc:Int32" />
</opc:StructuredType>
<opc:Field Name="OutputArguments" TypeName="ua:Variant" LengthField="NoOfOutputArguments" />
</opc:StructuredType>

<opc:StructuredType Name="CallRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="NoOfMethodsToCall" TypeName="opc:Int32" />
  <opc:Field Name="MethodsToCall" TypeName="tns:CallMethodRequest" LengthField="NoOfMethodsToCall" />
</opc:StructuredType>

<opc:StructuredType Name="CallResponse" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
  <opc:Field Name="Results" TypeName="tns:CallMethodResult" LengthField="NoOfResults" />
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:EnumeratedType Name="MonitoringMode" LengthInBits="32">
  <opc:EnumeratedValue Name="Disabled" Value="0" />
  <opc:EnumeratedValue Name="Sampling" Value="1" />
  <opc:EnumeratedValue Name="Reporting" Value="2" />
</opc:EnumeratedType>

<opc:EnumeratedType Name="DataChangeTrigger" LengthInBits="32">
  <opc:EnumeratedValue Name="Status" Value="0" />
  <opc:EnumeratedValue Name="StatusValue" Value="1" />
  <opc:EnumeratedValue Name="StatusValueTimestamp" Value="2" />
</opc:EnumeratedType>

<opc:EnumeratedType Name="DeadbandType" LengthInBits="32">
  <opc:EnumeratedValue Name="None" Value="0" />
  <opc:EnumeratedValue Name="Absolute" Value="1" />
  <opc:EnumeratedValue Name="Percent" Value="2" />
</opc:EnumeratedType>

<opc:StructuredType Name="MonitoringFilter" BaseType="ua:ExtensionObject">
</opc:StructuredType>

<opc:StructuredType Name="DataChangeFilter" BaseType="tns:MonitoringFilter">
  <opc:Field Name="Trigger" TypeName="tns:DataChangeTrigger" />
  <opc:Field Name="DeadbandType" TypeName="opc:UInt32" />
  <opc:Field Name="DeadbandValue" TypeName="opc:Double" />
</opc:StructuredType>

<opc:StructuredType Name="EventFilter" BaseType="tns:MonitoringFilter">
  <opc:Field Name="NoOfSelectClauses" TypeName="opc:Int32" />
  <opc:Field Name="SelectClauses" TypeName="tns:SimpleAttributeOperand" LengthField="NoOfSelectClauses"
<opc:Field Name="WhereClause" TypeName="tns:ContentFilter" />
</opc:StructuredType>

<opc:StructuredType Name="AggregateConfiguration" BaseType="ua:ExtensionObject">
<opc:Field Name="UseServerCapabilitiesDefaults" TypeName="opc:Boolean" />
<opc:Field Name="TreatUncertainAsBad" TypeName="opc:Boolean" />
<opc:Field Name="PercentDataBad" TypeName="opc:Byte" />
<opc:Field Name="PercentDataGood" TypeName="opc:Byte" />
<opc:Field Name="UseSlopedExtrapolation" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="AggregateFilter" BaseType="tns:MonitoringFilter">
<opc:Field Name="StartTime" TypeName="opc:DateTime" />
<opc:Field Name="AggregateType" TypeName="ua:NodeId" />
<opc:Field Name="ProcessingInterval" TypeName="opc:Double" />
<opc:Field Name="AggregateConfiguration" TypeName="tns:AggregateConfiguration" />
</opc:StructuredType>

<opc:StructuredType Name="MonitoringFilterResult" BaseType="ua:ExtensionObject">
</opc:StructuredType>

<opc:StructuredType Name="EventFilterResult" BaseType="tns:MonitoringFilterResult">
<opc:Field Name="NoOfSelectClauseResults" TypeName="opc:Int32" />
<opc:Field Name="SelectClauseResults" TypeName="ua:StatusCode" LengthField="NoOfSelectClauseResults"
</opc:StructuredType>

<opc:StructuredType Name="AggregateFilterResult" BaseType="tns:MonitoringFilterResult">
<opc:Field Name="RevisedStartTime" TypeName="opc:DateTime" />
<opc:Field Name="RevisedProcessingInterval" TypeName="opc:Double" />
<opc:Field Name="RevisedAggregateConfiguration" TypeName="tns:AggregateConfiguration" />
</opc:StructuredType>

<opc:StructuredType Name="MonitoringParameters" BaseType="ua:ExtensionObject">
<opc:Field Name="ClientHandle" TypeName="opc:UInt32" />
<opc:Field Name="SamplingInterval" TypeName="opc:Double" />
<opc:Field Name="Filter" TypeName="ua:ExtensionObject" />
<opc:Field Name="QueueSize" TypeName="opc:UInt32" />
<opc:Field Name="DiscardOldest" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="MonitoredItemCreateRequest" BaseType="ua:ExtensionObject">
<opc:Field Name="ItemToMonitor" TypeName="tns:ReadValueId" />
</opc:StructuredType>
<opc:StructuredType>

<opc:StructuredType Name="ModifyMonitoredItemsResponse" BaseType="ua:ExtensionObject">
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="NoOfResults" TypeName="opc:Int32" />
<opc:Field Name="Results" TypeName="tns:MonitoredItemModifyResult" LengthField="NoOfResults" />
<opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
<opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="SetMonitoringModeRequest" BaseType="ua:ExtensionObject">
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="SubscriptionId" TypeName="opc: UInt32" />
<opc:Field Name="MonitoringMode" TypeName="tns: MonitoringMode" />
<opc:Field Name="NoOfMonitoredItemIds" TypeName="opc:Int32" />
<opc:Field Name="MonitoredItemIds" TypeName="opc: UInt32" LengthField="NoOfMonitoredItemIds" />
</opc:StructuredType>

<opc:StructuredType Name="SetMonitoringModeResponse" BaseType="ua:ExtensionObject">
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="NoOfResults" TypeName="opc:Int32" />
<opc:Field Name="Results" TypeName="ua:StatusCode" LengthField="NoOfResults" />
<opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
<opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="SetTriggeringRequest" BaseType="ua:ExtensionObject">
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="SubscriptionId" TypeName="opc: UInt32" />
<opc:Field Name="TriggeringItemId" TypeName="opc: UInt32" />
<opc:Field Name="NoOfLinksToAdd" TypeName="opc:Int32" />
<opc:Field Name="LinksToAdd" TypeName="opc: UInt32" LengthField="NoOfLinksToAdd" />
<opc:Field Name="NoOfLinksToRemove" TypeName="opc:Int32" />
<opc:Field Name="LinksToRemove" TypeName="opc: UInt32" LengthField="NoOfLinksToRemove" />
</opc:StructuredType>

<opc:StructuredType Name="SetTriggeringResponse" BaseType="ua:ExtensionObject">
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="NoOfAddResults" TypeName="opc:Int32" />
<opc:Field Name="AddResults" TypeName="ua:StatusCode" LengthField="NoOfAddResults" />
<opc:Field Name="NoOfAddDiagnosticInfos" TypeName="opc:Int32" />
<opc:Field Name="AddDiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfAddDiagnosticInfos" />
<opc:Field Name="NoOfRemoveResults" TypeName="opc:Int32" />
<opc:Field Name="RemoveResults" TypeName="ua:StatusCode" LengthField="NoOfRemoveResults" />
<opc:Field Name="NoOfRemoveDiagnosticInfos" TypeName="opc:Int32" />
<opc:Field Name="RemoveDiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfRemoveDiagnosticInfos" />
</opc:StructuredType>
<opc:StructuredType>
  <opc:StructuredType Name="DeleteMonitoredItemsRequest" BaseType="ua:ExtensionObject">
    <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
    <opc:Field Name="SubscriptionId" TypeName="opc:UInt32" />
    <opc:Field Name="NoOfMonitoredItemIds" TypeName="opc:Int32" />
    <opc:Field Name="MonitoredItemIds" TypeName="opc:UInt32" LengthField="NoOfMonitoredItemIds" />
  </opc:StructuredType>
</opc:StructuredType>

<opc:StructuredType Name="DeleteMonitoredItemsResponse" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="NoOfResults" TypeName="opc:Int32" />
  <opc:Field Name="Results" TypeName="ua:StatusCode" LengthField="NoOfResults" />
  <opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
  <opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="CreateSubscriptionRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="RequestedPublishingInterval" TypeName="opc:Double" />
  <opc:Field Name="RequestedLifetimeCount" TypeName="opc:UInt32" />
  <opc:Field Name="RequestedMaxKeepAliveCount" TypeName="opc:UInt32" />
  <opc:Field Name="MaxNotificationsPerPublish" TypeName="opc:UInt32" />
  <opc:Field Name="PublishingEnabled" TypeName="opc:Boolean" />
  <opc:Field Name="Priority" TypeName="opc:Byte" />
</opc:StructuredType>

<opc:StructuredType Name="CreateSubscriptionResponse" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="SubscriptionId" TypeName="opc:UInt32" />
  <opc:Field Name="RevisedPublishingInterval" TypeName="opc:Double" />
  <opc:Field Name="RevisedLifetimeCount" TypeName="opc:UInt32" />
  <opc:Field Name="RevisedMaxKeepAliveCount" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="ModifySubscriptionRequest" BaseType="ua:ExtensionObject">
  <opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
  <opc:Field Name="SubscriptionId" TypeName="opc:UInt32" />
  <opc:Field Name="RequestedPublishingInterval" TypeName="opc:Double" />
  <opc:Field Name="RequestedLifetimeCount" TypeName="opc:UInt32" />
  <opc:Field Name="RequestedMaxKeepAliveCount" TypeName="opc:UInt32" />
  <opc:Field Name="MaxNotificationsPerPublish" TypeName="opc:UInt32" />
  <opc:Field Name="PublishingEnabled" TypeName="opc:Boolean" />
  <opc:Field Name="Priority" TypeName="opc:Byte" />
</opc:StructuredType>

<opc:StructuredType Name="ModifySubscriptionResponse" BaseType="ua:ExtensionObject">
  <opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
  <opc:Field Name="SubscriptionId" TypeName="opc:UInt32" />
  <opc:Field Name="RevisedPublishingInterval" TypeName="opc:Double" />
</opc:StructuredType>
<opc:Field Name="ClientHandle" TypeName="opc:UInt32" />
<opc:Field Name="NoOfEventFields" TypeName="opc:Int32" />
<opc:Field Name="EventFields" TypeName="ua:Variant" LengthField="NoOfEventFields" />
</opc:StructuredType>

<opc:StructuredType Name="HistoryEventFieldList" BaseType="ua:ExtensionObject">
<opc:Field Name="NoOfEventFields" TypeName="opc:Int32" />
<opc:Field Name="EventFields" TypeName="ua:Variant" LengthField="NoOfEventFields" />
</opc:StructuredType>

<opc:StructuredType Name="StatusChangeNotification" BaseType="tns:NotificationData">
<opc:Field Name="Status" TypeName="ua:StatusCode" />
<opc:Field Name="DiagnosticInfo" TypeName="ua:DiagnosticInfo" />
</opc:StructuredType>

<opc:StructuredType Name="SubscriptionAcknowledgement" BaseType="ua:ExtensionObject">
<opc:Field Name="SubscriptionId" TypeName="opc:UInt32" />
<opc:Field Name="SequenceNumber" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="PublishRequest" BaseType="ua:ExtensionObject">
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="NoOfSubscriptionAcknowledgements" TypeName="opc:Int32" />
<opc:Field Name="SubscriptionAcknowledgements" TypeName="tns:SubscriptionAcknowledgement" LengthField="NoOfSubscriptionAcknowledgements" />
</opc:StructuredType>

<opc:StructuredType Name="PublishResponse" BaseType="ua:ExtensionObject">
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="SubscriptionId" TypeName="opc:UInt32" />
<opc:Field Name="NoOfAvailableSequenceNumbers" TypeName="opc:Int32" />
<opc:Field Name="AvailableSequenceNumbers" TypeName="opc:UInt32" LengthField="NoOfAvailableSequenceNumbers" />
<opc:Field Name="MoreNotifications" TypeName="opc:Boolean" />
<opc:Field Name="NotificationMessage" TypeName="tns:NotificationMessage" />
<opc:Field Name="NoOfResults" TypeName="opc:Int32" />
<opc:Field Name="Status" TypeName="ua:StatusCode" LengthField="NoOfResults" />
<opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
<opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="RepublishRequest" BaseType="ua:ExtensionObject">
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="SubscriptionId" TypeName="opc:UInt32" />
<opc:Field Name="RetransmitSequenceNumber" TypeName="opc:UInt32" />
</opc:StructuredType>

<opc:StructuredType Name="RepublishResponse" BaseType="ua:ExtensionObject"
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="NotificationMessage" TypeName="tns:NotificationMessage" />
</opc:StructuredType>

<opc:StructuredType Name="TransferResult" BaseType="ua:ExtensionObject">
<opc:Field Name="StatusCode" TypeName="ua:StatusCode" />
<opc:Field Name="NoOfAvailableSequenceNumbers" TypeName="opc:Int32" LengthField="NoOfAvailableSequenceNumbers" />
</opc:StructuredType>

<opc:StructuredType Name="TransferSubscriptionsRequest" BaseType="ua:ExtensionObject">
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="NoOfSubscriptionIds" TypeName="opc:Int32" />
<opc:Field Name="SubscriptionIds" TypeName="opc:UInt32" LengthField="NoOfSubscriptionIds" />
<opc:Field Name="SendInitialValues" TypeName="opc:Boolean" />
</opc:StructuredType>

<opc:StructuredType Name="TransferSubscriptionsResponse" BaseType="ua:ExtensionObject">
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="NoOfResults" TypeName="opc:Int32" />
<opc:Field Name="Results" TypeName="tns:TransferResult" LengthField="NoOfResults" />
<opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
<opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteSubscriptionsRequest" BaseType="ua:ExtensionObject">
<opc:Field Name="RequestHeader" TypeName="tns:RequestHeader" />
<opc:Field Name="NoOfSubscriptionIds" TypeName="opc:Int32" />
<opc:Field Name="SubscriptionIds" TypeName="opc:UInt32" LengthField="NoOfSubscriptionIds" />
</opc:StructuredType>

<opc:StructuredType Name="DeleteSubscriptionsResponse" BaseType="ua:ExtensionObject">
<opc:Field Name="ResponseHeader" TypeName="tns:ResponseHeader" />
<opc:Field Name="NoOfResults" TypeName="opc:Int32" />
<opc:Field Name="Results" TypeName="ua:StatusCode" LengthField="NoOfResults" />
<opc:Field Name="NoOfDiagnosticInfos" TypeName="opc:Int32" />
<opc:Field Name="DiagnosticInfos" TypeName="ua:DiagnosticInfo" LengthField="NoOfDiagnosticInfos" />
</opc:StructuredType>

<opc:StructuredType Name="BuildInfo" BaseType="ua:ExtensionObject">
<opc:Field Name="ProductUri" TypeName="opc:String" />
<opc:Field Name="ManufacturerName" TypeName="opc:String" />
<opc:Field Name="ProductName" TypeName="opc:String" />
<opc:Field Name="SoftwareVersion" TypeName="opc:String" />
<opc:Field Name="BuildNumber" TypeName="opc:String" />
<opc:Field Name="BuildDate" TypeName="opc:DateTime" />
</opc:StructuredType>
<opc:EnumeratedType Name="RedundancySupport" LengthInBits="32">
  <opc:EnumeratedValue Name="None" Value="0" />
  <opc:EnumeratedValue Name="Cold" Value="1" />
  <opc:EnumeratedValue Name="Warm" Value="2" />
  <opc:EnumeratedValue Name="Hot" Value="3" />
  <opc:EnumeratedValue Name="Transparent" Value="4" />
  <opc:EnumeratedValue Name="HotAndMirrored" Value="5" />
</opc:EnumeratedType>

<opc:EnumeratedType Name="ServerState" LengthInBits="32">
  <opc:EnumeratedValue Name="Running" Value="0" />
  <opc:EnumeratedValue Name="Failed" Value="1" />
  <opc:EnumeratedValue Name="NoConfiguration" Value="2" />
  <opc:EnumeratedValue Name="Suspended" Value="3" />
  <opc:EnumeratedValue Name="Shutdown" Value="4" />
  <opc:EnumeratedValue Name="Test" Value="5" />
  <opc:EnumeratedValue Name="CommunicationFault" Value="6" />
  <opc:EnumeratedValue Name="Unknown" Value="7" />
</opc:EnumeratedType>

<opc:StructuredType Name="RedundantServerDataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="ServerId" TypeName="opc:String" />
  <opc:Field Name="ServiceLevel" TypeName="opc:Byte" />
  <opc:Field Name="ServerState" TypeName="tns:ServerState" />
</opc:StructuredType>

<opc:StructuredType Name="EndpointUrlListDataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="NoOfEndpointUrlList" TypeName="opc:Int32" />
  <opc:Field Name="EndpointUrlList" TypeName="opc:String" LengthField="NoOfEndpointUrlList" />
</opc:StructuredType>

<opc:StructuredType Name="NetworkGroupDataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="ServerUri" TypeName="opc:String" />
  <opc:Field Name="NoOfNetworkPaths" TypeName="opc:Int32" />
  <opc:Field Name="NetworkPaths" TypeName="tns:EndpointUrlListDataType" LengthField="NoOfNetworkPaths" />
</opc:StructuredType>

<opc:StructuredType Name="SamplingIntervalDiagnosticsDataType" BaseType="ua:ExtensionObject">
  <opc:Field Name="SamplingInterval" TypeName="opc:Double" />
  <opc:Field Name="MonitoredItemCount" TypeName="opc:UInt32" />
  <opc:Field Name="MaxMonitoredItemCount" TypeName="opc:UInt32" />
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1.50 fmt 7.0.1

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.
All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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1.51 cpp-httplib 0.7.8

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Aleksey Gurtovoy (agurtovoy@meta-comm.com)
Andrei Alexandrescu (andrewalex - at - hotmail.com) (See Boost list message of August 12, 2004 11:06:58 AM
EST)
The header `<boost/mp11/mpl.hpp>`, when included, defines the necessary support infrastructure for `mp_list` and `std::tuple` to be valid link:../../../../libs/mpl[MPL] sequences.

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`.

It’s also possible to only enable support for `mp_list` by including `<boost/mp11/mp11_list.hpp>`, and for `std::tuple` by including `<boost/mp11/mp11_tuple.hpp>`. This may be required because some libraries, such as Boost.Fusion, contain their own MPL support for `std::tuple`, which conflicts with Mp11’s one.
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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1.62 popsicle-redirects 1.1.0

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1.63 mime-db 1.46.0

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1.64 libmodbus 3.1.6

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1.98 pax-utils 1.2.8-r0

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Julian Seward, jseward@bzip.org

bzip2/libbzip2 version 1.0.6 of 6 September 2010

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DRuntime: Runtime Library for the D Programming Language

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Version 3.1, 31 March 2009

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