



Ocumentation

Overview

Package pkix contains shared, low level structures used for ASN.1 parsing and serialization of X.509 certificates, CRL and OCSP.

Index

Constants

This section is empty.

Variables

This section is empty.

Functions

This section is empty.

Types

type AlgorithmIdentifier

```
type AlgorithmIdentifier struct {
    Algorithm asn1.ObjectIdentifier
    Parameters asn1.RawValue `asn1:"optional"`
}
```

AlgorithmIdentifier represents the ASN.1 structure of the same name. See RFC 5280, section 4.1.1.2.

type AttributeTypeAndValue

```
type AttributeTypeAndValue struct {
   Type asn1.ObjectIdentifier
   Value any
}
```

AttributeTypeAndValue mirrors the ASN.1 structure of the same name in RFC 5280, Section 4.1.2.4.

type AttributeTypeAndValueSET

added in go1.3

```
type AttributeTypeAndValueSET struct {
    Type asn1.ObjectIdentifier
    Value [][]AttributeTypeAndValue `asn1:"set"`
}
```

AttributeTypeAndValueSET represents a set of ASN.1 sequences of AttributeTypeAndValue sequences from RFC 2986 (PKCS #10).

type CertificateList DEPRECATED Show

type Extension

```
type Extension struct {
   Id     asn1.0bjectIdentifier
   Critical bool `asn1:"optional"`
```

```
Value []byte
}
```

Extension represents the ASN.1 structure of the same name. See RFC 5280, section 4.2.

type Name

```
type Name struct {
   Country, Organization, OrganizationalUnit []string
    Locality, Province
                                              []string
    StreetAddress, PostalCode
                                              []string
   SerialNumber, CommonName
                                              string
   // Names contains all parsed attributes. When parsing distinguished names,
   // this can be used to extract non-standard attributes that are not parsed
   // by this package. When marshaling to RDNSequences, the Names field is
    // ignored, see ExtraNames.
   Names []AttributeTypeAndValue
   // ExtraNames contains attributes to be copied, raw, into any marshaled
   // distinguished names. Values override any attributes with the same OID.
    // The ExtraNames field is not populated when parsing, see Names.
   ExtraNames []AttributeTypeAndValue
}
```

Name represents an X.509 distinguished name. This only includes the common elements of a DN. Note that Name is only an approximation of the X.509 structure. If an accurate representation is needed, asn1.Unmarshal the raw subject or issuer as an RDNSequence.

func (*Name) FillFromRDNSequence

```
func (n *Name) FillFromRDNSequence(rdns *RDNSequence)
```

FillFromRDNSequence populates n from the provided RDNSequence. Multi-entry RDNs are flattened, all entries are added to the relevant n fields, and the grouping is not preserved.

func (Name) String

added in go1.10

```
func (n Name) String() string
```

String returns the string form of n, roughly following the RFC 2253 Distinguished Names syntax.

func (Name) ToRDNSequence

```
func (n Name) ToRDNSequence() (ret RDNSequence)
```

ToRDNSequence converts n into a single RDNSequence. The following attributes are encoded as multivalue RDNs:

Country

- Organization
- OrganizationalUnit
- Locality
- Province
- StreetAddress
- PostalCode

Each ExtraNames entry is encoded as an individual RDN.

type RDNSequence

```
type RDNSequence []RelativeDistinguishedNameSET
```

func (RDNSequence) String

added in go1.10

```
func (r RDNSequence) String() string
```

String returns a string representation of the sequence r, roughly following the RFC 2253 Distinguished Names syntax.

type RelativeDistinguishedNameSET

```
type RelativeDistinguishedNameSET []AttributeTypeAndValue
```

type RevokedCertificate

```
type RevokedCertificate struct {
    SerialNumber *big.Int
    RevocationTime time.Time
    Extensions []Extension `asn1:"optional"`
}
```

RevokedCertificate represents the ASN.1 structure of the same name. See RFC 5280, section 5.1.

type TBSCertificateList DEPRECATED Show

Source Files

View all <a>I

pkix.go

Why Go	Get Started	Packages	About
Use Cases	Playground	Standard Library	Download
Case Studies	Tour	About Go Packages	Blog

Help Release Notes **Brand Guidelines** Code of Conduct Connect Twitter GitHub Slack r/golang Meetup Golang Weekly Copyright Terms of Service Privacy Policy Report an Issue Google • ===

Issue Tracker

Stack Overflow