

SPECIFICATIONS

qClient™ SDK

qClient KDP including key management solution also available

Key Features

- Implements OASIS Key Management Interoperability Protocol (KMIP)
- Interoperates with third-party servers
- Facilitates rapid development, relieving developers of the need for deep KMIP knowledge
- Enables implementation of general-purpose key management

KMIP & PKCS#11

- KMIP 1.0, 1.1, 1.2, 1.3, and 1.4
- Basic and advanced KMIP profiles
- KMIP Symmetric Key and Asymmetric Key profiles
- KMIP Secret Data and Storage Encryption profiles
- PKCS#11 Baseline and Extended Provider profiles

Languages

- qClient is implemented in C
- .NET and Java APIs
- Other APIs available upon request

Supported Managed Object Types

Certificate	Public Key	Symmetric Key
Opaque Object	Random Object	Template
Private Key	Secret Data	

Supported Managed Object Attributes

Activation Date	Deactivation Date	Operation Policy Name
Always Sensitive	Destroy Date	Personalization String
Application	Digest	Process Start Date
Archive Date	Digital Signature Algorithm	Process Stop Date
Bit Length	Entropy Quality	Random Number Generator
Certificate Issuer	Extractable	Revocation Reason
Certificate Length	Fresh	Rewind Allowed
Certificate Subject	Hash	RNG Retrieve
Compromise	Initial Date	RNG Seed
Compromise Date	Last Change Date	Sensitive
Contact Information	Lease Time	Specific Information
Cryptographic Algorithm	Link	State
Cryptographic Domain	Name	Unique Identifier
Parameters	Never Extractable	Usage Limits
Cryptographic Length	Object Group	X.509 Certificate Identifier
Cryptographic Parameters	Object Type	X.509 Certificate Issuer
Cryptographic Usage Mask	Occurrence Date	X.509 Certificate Subject
Custom Attribute	Offset	

Supported KMIP Operations

Activate	Delete Attribute	Modify Attribute
Add Attributes	Destroy	Obtain Lease
Archive	Encrypt	Poll
Cancel	Get	Query
Check	Get Attributes	Recover
Create	Get Attributes List	Register
Create Key Pair	Get Usage Allocation	Re-Key
Decrypt	Locate	Revoke