## SPECIFICATIONS

### qClient™ KDP

Client SDK including a key management solution

### Key Features
- Allows for rapid development of key management applications
- Supports OASIS KMIP and PKCS#11 protocols
- Interoperates with qCrypt and compliant third-party key management servers
- Facilitates rapid development, relieving developers of the need for deep KMIP or PKCS#11 knowledge
- Includes not-for-resale qCrypt 200V virtual machine license*

### KMIP & PKCS#11
- OASIS KMIP: Conformant with standards 1.0/1.1/1.2/1.3/1.4/2.0
- Supports all KMIP profiles and transport protocols: TTLV, TTLV over HTTPS, JSON, XML
- PKCS#11 version 2.40, Baseline Provider and Extended Provider profiles, Authentication Tokens

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

### Supported Platforms
- 32 bit Windows 7, 8+, Server 2008 R2+
- 64 bit Windows 7, 8+, Server 2008 R2+
- 32 bit Linux x86 Kernel 2.6+
- 64 bit Linux x86_64 Kernel 2.6+
- ARMv8 Debian 4.9.130
- 64 bit ESXi 6.5, 6.7

### Supported KMIP Managed Objects
| Certificate | Public Key | Symmetric Key |
| Opaque Object | Random Object | Template |
| Private Key | Secret Data |

### Supported KMIP Operations
| Objects Establishment | Object Lifecycle | Discovery |
| Object and Attribute Retrieval | Attribute Management | Crypto Operations |
| Object and Operation Accessibility | Object Renewal | Split Key Operations |
| Baseline | Asynchronous Operations | |
| Symmetric Key Lifecycle | Server Initiated | |
| Basic Symmetric Key Foundry | | |
| Intermediate Symmetric Key Foundry | Advanced Symmetric Key Foundry | Opaque Managed Object |

### Supported KMIP Profiles
- Baseline
- Symmetric Key Lifecycle
- Basic Symmetric Key Foundry
- Intermediate Symmetric Key Foundry
- Advanced Symmetric Key Foundry
- Basic Cryptographic
- Advanced Cryptographic
- RNG Cryptographic
- Opaque Managed Object
- Storage Array with Self-Encrypting Drives
- Tape Library

### Supported PKCS#11 Profiles
- Baseline Provider
- Extended Provider
- Authentication Token ("KMIP", "Keystore software" provided with support for customers to provide their own token)

* Refer to qCrypt 200V data sheet for more information