

# Storage Client Profile

KMIP and interoperability

# KMIP interoperability program

- Host KMIP compatible servers (virtual) in the SNIA tech center
- Schedule time for client implementations with the servers
- Document implementations configuration and results of testing
- Host website with results
- Create education on KMIP and the storage client profile

# Testing

- Multiple server implementations
  - Virtual servers or appliances possible
- Client implementations
  - Define set of tests in common
  - Testing process
    - Define set of IP addresses for clients
    - Identify administrator to access logs on servers
    - Time period of 2 months for test
    - When ready capture logs of complete test
    - Review test results by committee – publish on website

# Storage Client Profile Use Cases

- Options for establishing trust in certificates for TLS session establishment
- Interaction use cases
  - Get key for new storage unit
  - Retrieve key for encrypted storage unit
  - Register key (with metadata)
  - Modify attributes associated with a key
- Key rotation and deletion

# Provisioning new storage

- Encryption key generation use cases
  - Device requests a new key from the key manager
    - Key is returned along with label or identifier
  - Device generates a key and registers the key with the key manager
  - Devices can add attributes associated as meta-data with the key
  - Devices use a self-generated encryption key but get an authentication key from a key manager

# KMIP interoperability program

- Host KMIP compatible servers (virtual) in the SNIA tech center
  - Need administrators identified
- Schedule time for client implementations with the servers
  - Need IDs and ranges of IP addresses
- Document implementations configuration and results of testing
  - Coordinate log collection
  - Get implementation documentation
  - Review results
- Host website with results
  - Update web site with logo and results
  - Include cross link vendor landing page
- Create education on KMIP and the storage client profile

# SSIF

- SSIF membership fees fund the SNIA tech center hosting and contractor fees for assistance