Initiator (I1)   Initiator (I2)   Initiator (I3)

I_T nexus B

Service Delivery Subsystem

I_T nexus A

I_T nexus C

Target

Set of Data Encryption Parameters (one or more):
--- At least one; one for ALL I_T NEXUS or LOCAL
a) the SCSI initiator device port name; otherwise, the

Set of Data Encryption Parameters (one or more):
--- Optionally one for each additional LOCAL
a) the SCSI initiator device port name; otherwise, the
SCSI initiator device port identifier;
b) SCSI target port through which the data encryption
parameters were established;
a&b)=I_T nexus
c) key scope;
d) encryption mode;
e) decryption mode;
f) key;
g) supplemental decryption keys;
h) algorithm index;
i) key instance counter;
j) CKOD;
k) CKORL;
l) CKORP;
m) U-KAD;
n) A-KAD;
o) M-KAD;
p) nonce;
q) raw decryption mode disable where supported; and
r) check external encryption mode where supported.

Saved Information per I_T nexus:

Saved Information per I_T nexus:

Saved Information per I_T nexus:

a) data encryption scope;
b) lock;
c) key instance counter value at lock;
d) key instance counter value assigned to the last
key established by a Set Data Encryption page
for this I_T nexus with a scope value of LOCAL
and the SDK bit is set to zero; and
e) registered for encryption unit attentions state.

Initiator (I1)

Initiator (I2)

Initiator (I3)

Service Delivery Subsystem

I_T nexus B

I_T nexus A

I_T nexus C

Target

Set of Data Encryption Parameters (one or more):
--- assume only one supported by device server
a) the SCSI initiator device port name; otherwise, the SCSI initiator device port identifier;
b) SCSI target port through which the data encryption parameters were established;
a&b)=I_T nexus (==NULL)
c) key scope==ALL I_T NEXUS
d) encryption mode==DISABLE
e) decryption mode==DISABLE
f) key==NULL
g) supplemental decryption keys==NULL
h) algorithm index==NULL
i) key instance counter==0
j) CKOD==0
k) CKORL==0
l) CKORP==0
m) U-KAD==NULL
n) A-KAD==NULL
o) M-KAD==NULL
p) nonce==NULL
q) raw decryption mode disable==0
r) check external encryption mode==0

Saved Information per I_T nexus:

Saved Information per I_T nexus:

Saved Information per I_T nexus:

a) data encryption scope==PUBLIC
b) lock==FALSE
c) key instance counter value at lock==NULL
d) key instance counter value assigned to the last key established by a Set Data Encryption page for this I_T nexus with a scope value of LOCAL and the SDK bit is set to zero==NULL
e) registered for encryption unit attentions state==FALSE

Initiator (I1)   Initiator (I2)   Initiator (I3)

I_T nexus B

Service Delivery Subsystem

I_T nexus A

Set Data Encryption page
a) SCOPE==LOCAL;
b) LOCK==TRUE;
c) CEEM==00b
d) RDMC==00b
e) SDK==FALSE
f) ENCRYPTION MODE==ENCRYPT
g) DECRYPTION MODE==DECRYPT
h) algorithm index==8001 0014h (AES-GCM w/16byte MAC) or NULL if more than one supported
i) KEY FORMAT==00h
j) CKOD==TRUE
k) CKORL==TRUE
l) CKORP==TRUE
m) U-KAD==NULL
n) A-KAD==xyz
o) M-KAD==NULL
p) nonce==NULL
q) KEY==123456789ABCDEFh

Target

Set of Data Encryption Parameters (one or more):
--- assume only one supported by device server
a) the SCSI initiator device port name; otherwise, the SCSI initiator device port identifier;
b) SCSI target port through which the data encryption parameters were established;
a&b)=I_T nexus
c) key scope
d) encryption mo
e) decryption mo
f) key==
g) supplemental decryption keys==NULL

i) key instance
j) CKO
k) CKO
l) CKO
m) U-KAD==NULL
n) A-K
o) M-KAD==NULL
p) nonce==NULL
q) raw decryption mode disable==FALSE
r) check external encryption mode==FALSE

Saved Information I_T nexus A:

a) data encryption
b) lo
c) key instance counter val
d) key instance counter value assigned to the last key established by a Set Data Encryption page for this I_T nexus with a scope value of LOCAL and the SDK bit is s
e) registered for encryption unit attentions
sta

Initiator (I1)   Initiator (I2)   Initiator (I3)

Service Delivery Subsystem

I_T nexus B

I_T nexus A

I_T nexus C

Target

Set of Data Encryption Parameters (one or more):
--- assume only one supported by device server
a) the SCSI initiator device port name; otherwise, the
SCSI initiator device port identifier;
b) SCSI target port through which the data encryption
parameters were established;
a&b)=I_T nexus
c) key scope==
d) encryption mode==ENCRYPT
e) decryption mode==DECRYPT
f) key==
g) supplemental decryption keys==NULL
h) algorithm index==8001 0014h (AES-GCM w/16byte
MAC) or NULL if more than one supported
i) key insta
j) CKOD==TRUE
k) CKORL==TRUE
l) CKORP==TRUE
m) U-KAD==NULL
n) A-KAD
o) M-KAD==NULL
p) nonce==NULL
q) raw decryption mode disable==FALSE
r) check external encryption mode==FALSE

Saved Information I_T nexus C:

Saved Information I_T nexus B:

a) data encryption scope   st
b)
c) key instance counter

ned to the last
ryption page
e of LOCAL
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entions

Set Data Encryption page
a) SCOPE==ALL I_T NEXUS;
b) LOCK==TRUE;
c) CEEM==00b
d) RDMC==00b
e) SDK==FALSE
f) ENCRYPTION MODE==ENCRYPT
g) DECRYPTION MODE==DECRYPT
h) algorithm index==8001 0014h (AES-GCM w/16byte
MAC) or NULL if more than one supported
i) KEY FORMAT==00h
j) CKOD==TRUE
k) CKORL==TRUE
l) CKORP==TRUE
m) U-KAD==NULL
n) A-KAD==123456789
o) M-KAD==NULL
p) nonce==NULL
q) KEY==A5A5A5A5A5A5h

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cryption page
ue of LOCAL

entions