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

Service Delivery Subsystem  

I_T nexus A  
I_T nexus B  
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 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:  
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 A  I_T nexus B  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:

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

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

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
**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
   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
   r) check external encryption mode

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**Saved Information I_T nexus A:**

- data encryption
- lock
- key instance counter
- 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
- registered for encryption unit attentions state

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**Set Data Encryption page**

- SCOPE==LOCAL
- LOCK==TRUE
- CEEM==00b
- RDMC==00b
- SDK==FALSE
- ENCRYPTION MODE==ENCRYPT
- DECRIPTION MODE==DECRYPT
- algorithm index==8001 0014h (AES-GCM w/16byte MAC) or NULL if more than one supported
- KEY FORMAT==00h
- CKOD==TRUE
- CKORL==TRUE
- CKORP==TRUE
- U-KAD==NULL
- A-KAD==xyz
- M-KAD==NULL
- nonce==NULL
- KEY==123456789ABCDEFh

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**Saved Information I_T nexus B:**

- data encryption
- lock
- key instance counter
- 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
- registered for encryption unit attentions state

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**Saved Information I_T nexus C:**

- data encryption
- lock
- key instance counter
- 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
- registered for encryption unit attentions state

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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 (==I_T nexus B)
c) key scope==ALL I_T NEXUS
d) encryption mode==ENCRYPT
e) decryption mode==DECRYPT
f) key==A5A5A5A5A5A5h
g) supplemental decryption keys==NULL
h) algorithm index==8001 0014h (AES-GCM w/16byte
   MAC) or NULL if more than one supported
i) key instance counter==2
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) raw decryption mode disable==FALSE
r) check external encryption mode==FALSE

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==00
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==A5A5A5A5A5A5A5h